

# Control Panel Solutions Catalog

February 2019





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# Harmony™ tower lights and push buttons



## Harmony™ XVU components for Ø 60 modular tower lights

IP 65 light modules (for association)							
Voltage		24 V					
LED unit type		High brightness					
Color		<input checked="" type="radio"/> Green	<input checked="" type="radio"/> Red	<input checked="" type="radio"/> Orange	<input type="radio"/> White	<input checked="" type="radio"/> Blue	Multi-color
Reference	Non-flashing	<b>XVUC23</b>	<b>XVUC24</b>	<b>XVUC25</b>	<b>XVUC27</b>	<b>XVUC26</b>	<b>XVUC29</b>
	Flashing	<b>XVUC43</b>	<b>XVUC44</b>	<b>XVUC45</b>	–	–	–
IP 54 audible units (for association)							
Voltage		24 V					
Unit type		Buzzer		Sound			
Color		<input type="radio"/> Silver	<input checked="" type="radio"/> Dark gray				
Reference		<b>XVUC9SQ</b>	<b>XVUC9S</b>	<b>XVUC9V</b>			
IP 65 body units with top cover (for association)							
Voltage		24 VAC/VDC		100...240 VAC			
Color		<input type="radio"/> Silver	<input checked="" type="radio"/> Dark gray		<input type="radio"/> Silver		
Type		–	–	NPN	PNP		
Reference		<b>XVUC21BQ</b>	<b>XVUC21B</b>	<b>XVUC21MP</b>	<b>XVUC21MQP</b>		
Mounting bases for horizontal support (for association)							
Base type	Fixing plates				Direct fixing plates		
	With fixed length aluminum pole				With height adjustment aluminum pole (1)		
	100 mm / 3.937 in		400 mm / 15.748 in				
Color		<input type="radio"/> Silver	<input checked="" type="radio"/> Dark gray		<input type="radio"/> Silver	<input checked="" type="radio"/> Dark gray	
Reference		<b>XVUZ02Q</b>	<b>XVUZ02</b>	<b>XVUZ400</b>	<b>XVUZ05 (2)</b>	<b>XVUZ01Q</b> <b>XVUZ01 (3)</b>	
Accessories (for association)							
Unit type		Body extender		Flexible mounting unit for use on horizontal or vertical support, IP 55			
Color		<input type="radio"/> Silver	<input checked="" type="radio"/> Dark gray	<input checked="" type="radio"/> Dark gray			
Reference		<b>XVUC020Q</b>	<b>XVUC020</b>	<b>XVUZ06 (4)</b>			

(1) Pole height adjustable from 210 to 385 mm   (2) For use with DC body unit only  
 (3) 3-pin mounting   (4) Only compatible with direct fixing plates

# Harmony™ XVC tower lights



## XVC Ø 40/60 mm pre-assembled and pre-cabled tower lights

Pole Mount, 17 mm, on horizontal (IP54) or vertical (IP23) surface							
Operators	Reference	Voltage	LED Color(s)	Base	Flashing	Steady	Sound
40 mm	XVC4B15S	24 V	●		■	■ (1)	Buzzer
	XVC4B3	24 V	● ● ●		–	■	–
	XVC4B35S	24 V	● ● ●	Tower	■	■ (1)	Buzzer
	XVC4B4	24 V	● ● ● ●	Pole	–	■	–
For direct base mounting on horizontal surface (IP54)							
	XVC4B1K	24 V	●		–	■	–
	XVC4B3K	24 V	● ● ●		–	■	–

Pole Mount, 22 mm, on horizontal (IP54) or vertical (IP23) surface							
Operators	Reference	Voltage	LED Color(s)	Base	Flashing	Steady	Sound
60 mm	XVC6B3	24 V	● ● ●		–	■	–
	XVC6B35S	24 V	● ● ●		■	■ (1)	Buzzer
Base Mount, on horizontal surface (IP54) 22 mm, on horizontal (IP54) or vertical (IP23) surface							
	XVC6B15SK	24 V	●		■	■ (1)	Buzzer
	XVC6B35SK	24 V	● ● ●		■	■ (1)	Buzzer
	XVC6B3K	24 V	● ● ●		–	■	–

(1) Flashing function can be simply selected/programmed by wiring

Accessories for Mounting	
Reference	Description
XVCZ02	Metal Mount Base for XVC6
XVCZ11	Metal Mount Base for XVC4
XVCZ12	Plastic Mount Base for XVC6

# Harmony™ XB4, XB5, and XB7 Ø 22 mm metal, plastic, and monolithic control devices



	Assembled units			Complete unit = operator + mounting collar + contact block(s) + light modules (illuminated units only) (See page 5 for mounting collars and contact blocks.)			
	Description	Metal (XB4)	Plastic (XB5)	Monolithic (XB7)	Description	Metal (XB4)	Plastic (XB5)
Non-illuminated pushbutton, flush head	Black, N.O. contact block	<b>XB4BA21</b>	<b>XB5AA21</b>	<b>XB7NA21</b>	Black flush head, (operator only)	<b>ZB4BA2</b>	<b>ZB5AA2</b>
	Green, N.O. contact block	<b>XB4BA31</b>	<b>XB5AA31</b>	<b>XB7NA31</b>	Green flush head, (operator only)	<b>ZB4BA3</b>	<b>ZB5AA3</b>
	Red, N.C. contact block	<b>XB4BA42</b>	<b>XB5AA42</b>	<b>XB7NL42</b>	Red flush head, (operator only)	<b>ZB4BA4</b>	<b>ZB5AA4</b>
					Multi-colored tabs (operator only)	<b>ZB4BA9</b>	<b>ZB5AA9</b>
	Green, maintained, N.O. contact block	–	–	<b>XB7NH31</b>	–	–	–
	Black, maintained, N.O. contact block	–	–	<b>XB7NH21</b>	–	–	–
Non-illuminated multi-headed button	Flush green "I" / projecting red "0", 1 N.O. + 1 N.C. contact block	–	<b>XB5AL73415</b>	–	Flush green "I" / projecting red "0" (operator only)	–	<b>ZB5AW7A3741</b>
Non-illuminated pushbutton, extended head	Red, N.C. contact block	<b>XB4BL42</b>	<b>XB5AA31</b>	–	Red extended head (operator only)	<b>ZB4BL4</b>	<b>ZB5AL4</b>
Illuminated (LED) pushbutton, flush head	Red, 24 VAC/DC, N.O. + N.C. contact block	<b>XB4BW34B5</b>	<b>XB5AW34B5</b>	–	Red flush head, illuminated (operator only)	<b>ZB4BW343</b>	<b>ZB5AW343</b>
					Red LED light module, 24 VAC/DC	<b>ZBVB4</b>	<b>ZBVB4</b>
	Green, 24 VAC/DC, N.O. + N.C. contact block	<b>XB4BW33B5</b>	<b>XB5AW33B5</b>	–	Green flush head, illuminated (operator only)	<b>ZB4BW333</b>	<b>ZB5AW333</b>
					Green LED light module, 24 VAC/DC	<b>ZBVB3</b>	<b>ZBVB3</b>
	Orange, 24 VAC/DC, N.O. + N.C. contact block	<b>XB4BW35B5</b>	<b>XB5AW35B5</b>	–	Orange flush head, illuminated (operator only)	<b>ZB4BW353</b>	<b>ZB5AW353</b>
					Orange LED light module, 24 VAC/DC	<b>ZBVB5</b>	<b>ZBVB5</b>
	Red, 120 VAC/DC, N.O. + N.C. contact block	<b>XB4BW34G5</b>	<b>XB5AW34G5</b>	–	Red flush head, illuminated (operator only)	<b>ZB4BW343</b>	<b>ZB5AW343</b>
					Red LED light module, 120 VAC/DC	<b>ZBVG4</b>	<b>ZBVG4</b>
	Green, 120 VAC/DC, N.O. + N.C. contact block	<b>XB4BW33G5</b>	<b>XB5AW33G5</b>	–	Green flush head, illuminated (operator only)	<b>ZB4BW333</b>	<b>ZB5AW333</b>
					Green LED light module, 120 VAC/DC	<b>ZBVG3</b>	<b>ZBVG3</b>
	Orange, 120 VAC/DC, N.O. + N.C. contact block	<b>XB4BW35G5</b>	<b>XB5AW35G5</b>	–	Orange flush head, illuminated (operator only)	<b>ZB4BW353</b>	<b>ZB5AW353</b>
					Orange LED light module, 120 VAC/DC	<b>ZBVG5</b>	<b>ZBVG5</b>
Illuminated multi-headed button	Flush green "I" / projecting red "0", 1 N.O. + 1 N.C. contact block, 24 V VAC/DC light mod	<b>XB4BW73731B5</b>	–	–	Illuminated flush green "I" / projecting red "0" (operator only)	<b>ZB4BW7L3741</b>	–
					White LED light module, 24 VAC/DC	<b>ZBVB1</b>	<b>ZBVB1</b>
					Illuminated flush green "I" / flush red "0" (operator only)	<b>ZB4BW7A3741</b>	–
					Illuminated flush white / flush black (operator only)	<b>ZB5AW7A1720</b>	–
Illuminated (LED) pushbutton, extended head	Red, 24 VAC/DC 1 N.C. contact block	–	–	<b>XB7NW34B2</b>	Red extended head (operator Only)	<b>ZB4BW143</b>	<b>ZB5AW143</b>
					Red LED light module, 24 VAC/DC	<b>ZBVB4</b>	<b>ZBVB4</b>
	Green, 24 VAC/DC 1 N.O. contact block	–	–	<b>XB7NW34G2</b>	Red LED light module, 120 VAC/DC	<b>ZBVG4</b>	<b>ZBVG4</b>
					Green extended head (operator only)	<b>ZB4BW133</b>	<b>ZB5AW133</b>
	Yellow, 24 VAC/DC 1 N.O. contact block	–	–	<b>XB7NW33B1</b>	Green LED light module, 24 VAC/DC	<b>ZBVB3</b>	<b>ZBVB3</b>
					Green LED light module, 120 VAC/DC	<b>ZBVG3</b>	<b>ZBVG3</b>
	Green, 120 VAC 1 N.O. contact block	–	–	<b>XB7NW38B1 (Yellow)</b>	Orange extended head (operator only)	<b>ZB4BW153</b>	<b>ZB5AW153</b>
					Orange LED light module, 24 VAC/DC	<b>ZBVB5</b>	<b>ZBVB5</b>
Yellow, 120 VAC 1 N.O. contact block	–	–	<b>XB7NW38G1 (Yellow)</b>	Orange LED light module, 120 VAC	<b>ZBVG5</b>	<b>ZBVG5</b>	
Emergency stops (Ø 40 mushroom head)	Push-Pull, 1 N.O. + 1 N.C. contact block	<b>XB4BT845</b>	<b>XB5AT845</b>	<b>XB7NT845</b>	Push-Pull (operator only)	<b>ZB4BT84</b>	<b>ZB5AT84</b>
	Turn-to-Release, 2 N.C. contact blocks	<b>XB4BS8444</b>	<b>XB5AS8444</b>	<b>XB7NS8444</b>	Turn-to-Release (operator only)	<b>ZB4BS844</b>	<b>ZB5AS844</b>
	Turn-to-Release, 1 N.O. + 1 N.C. contact block	<b>XB4BS8445</b>	<b>XB5AS8445</b>	–	Turn-to-Release (operator only)	<b>ZB4BS844</b>	<b>ZB5AS844</b>
	Push-Pull, 1 N.C. contact block	–	–	<b>XB7NT842</b>	–	–	–
	Turn-to-Release, 1 N.C. contact block	–	–	<b>XB7NS8442</b>	–	–	–
Mushroom head pushbutton, spring return	Black head, 1 N.O. contact block	<b>XB4BC21</b>	<b>XB5AC21</b>	–	Black head (operator only)	<b>ZB4BC2</b>	<b>ZB5AC2</b>
Illuminated buzzers	Red, 24 VAC/DC	–	<b>XB5KS2B4</b>	–	–	–	–
	Red, 120 VAC	–	<b>XB5KS2G4</b>	–	–	–	–

# Harmony™ XB4, XB5, and XB7 Ø 22 mm metal, plastic, and monolithic control devices and accessories



		Assembled units			Complete unit = operator + mounting collar + contact block(s) + light modules (illuminated units only). (See page 5 for mounting collars and contact blocks.)		
	Description	Metal (XB4)	Plastic (XB5)	Monolithic (XB7)	Description	Metal (XB4)	Plastic (XB5)
Data ports (must purchase cover separately)	Plastic USB port	–	XB5PUSB3	–	–	–	–
	Plastic RJ45 port	–	XB5PRJ45	–	–	–	–
Pilot lights (LED)	Red, 24 VAC/DC	XB4BVB4	XB5AVB4	XB7EV04BP	Red pilot light (operator only)	ZB4BV043	ZB5AV043
					Red LED light module, 24 VAC/DC	ZBVB4	ZBVB4
	Green, 24 VAC/DC	XB4BVB3	XB5AVB3	XB7EV03BP	Green pilot light (operator only)	ZB4BV033	ZB5AV033
					Green LED light module, 24 VAC/DC	ZBVB3	ZBVB3
	Orange, 24 VAC/DC	XB4BVB5	XB5AVB5	XB7EV05BP (Yellow)	Orange pilot light (operator only)	ZB4BV053	ZB5AV053
					Orange LED light module, 24 VAC/DC	ZBVB5	ZBVB5
	Red, 120 VAC/DC	XB4BVG4	XB5AVG4	XB7EV04GP	Red pilot light (operator only)	ZB4BV043	ZB5AV043
				Red LED light module, 120 VAC/DC	ZBVG4	ZBVG4	
Green, 120 VAC/DC	XB4BVG3	XB5AVG3	XB7EV03GP	Green pilot light (operator only)	ZB4BV033	ZB5AV033	
				Green LED light module, 120 VAC/DC	ZBVG3	ZBVG3	
Orange, 120 VAC/DC	XB4BVG5	XB5AVG5	XB7EV05GP (Yellow)	Orange pilot light (operator only)	ZB4BV053	ZB5AV053	
				Orange LED light module, 120 VAC/DC	ZBVG5	ZBVG5	
Selector switches	2-Position, maintained, N.O. contact block	XB4BD21	XB5AD21	XB7ND21	2-Position, maintained (operator only)	ZB4BD2	ZB5AD2
	2-Position, maintained, 1 N.O. + 1 N.C. contact block	XB4BD41	XB5AD25	XB7ND25	2-Position, maintained (operator only)	ZB4BD2	ZB5AD2
	2-Position, spring return, N.O. contact block	XB4BD25	XB5AD41	–	2-Position, spring return (operator only)	ZB4BD4	ZB5AD3
	3-Position, maintained	XB4BD33	XB5AD33	XB7ND33	3-Position, maintained (operator only)	ZB4BD3	ZB5AD4
	3-Position, spring return	XB4BD53	XB5AD53	–	3-Position, spring return (operator only)	ZB4BD5	ZB5AD5
Potentiometers	1 K Ohms	XB4BD912R1K	XB5AD912R1K	–	–	–	–
	10 K Ohms	XB4BD912R10K	XB5AD912R10K	–	–	–	–
	100 K Ohms	XB4BD912R100K	XB5AD912R100K	–	–	–	–

## Components and accessories for Ø 22 mm control devices

	Description	Reference
Mounting collars	Metal mounting collar (for XB4 units)	ZB4BZ009
	Plastic mounting collar (for XB5 units)	ZB5AZ009
Contact blocks	N.O. Contact block	ZBE101
	N.C. Contact block	ZBE102
Light modules	24 VAC/DC Red LED light module	ZBVB4
	24 VAC/DC Green LED light module	ZBVB3
	24 VAC/DC Orange LED light module	ZBVB5
	24 VAC/DC White LED light module	ZBVB1
	120 VAC/DC Red LED light module	ZBVG4
	120 VAC/DC Green LED light module	ZBVG3
	120 VAC/DC Orange LED light module	ZBVG5
120 VAC/DC White LED light module	ZBVG1	
Legend plates	"Emergency Stop" yellow legend plate	ZBY9320
	"HAND OFF AUTO" legend plate	ZBY2387
	"START" black legend plate	ZBY2303
	"STOP" black legend plate	ZBY2304
	Blank black legend plate	ZBY2101
	"Off/On" black legend plate	ZBY2367
Boots and guards	Estop yellow metal guard	ZBZ1605
	Estop yellow round guard	ZB4BZ1905
	Black pushbutton padlock	ZB4BZ62
	Plastic blanking plug	ZB5SZ3
	Metal blanking plug	ZB4SZ3
	Selector switch black boot, standard knob	ZBDD2
	Pushbutton clear boot for flush head	ZBPA
Pushbutton clear boot extended head	ZBP0	
Data port covers	Black plastic cover for data ports	ZBSP1
	Transparent plastic cover for data ports	ZBSP2



# Harmony™ 9001K and 9001SK Ø 30 mm metal and plastic control devices



	Assembled units			Complete unit = operator + contact block(s) + light modules (illuminated units only) (See page 7 for contact blocks.)		
	Description	Metal (9001K)	Plastic (9001SK)	Description	Metal (9001K)	Plastic (9001SK)
<b>Non-illuminated pushbutton</b>	Black, 1 N.O. + 1 N.C. contact block	9001KR1BH13	9001SKR1BH13	Black pushbutton head, (operator only)	9001KR1B	9001SKR1B
	Green, 1 N.O. + 1 N.C. contact block	9001KR1GH13	9001SKR1GH13	Green pushbutton head, (operator only)	9001KR1G	9001SKR1G
	Red, 1 N.O. + 1 N.C. contact block	9001KR1RH13	9001SKR1RH13	Red pushbutton head, (operator only)	9001KR1R	9001SKR1R
	Universal (Red/green/black), 1 N.O. + 1 N.C. contact block	9001KR1UH13	9001SKR1UH13	Universal (Red/green/black) (operator only)	9001KR1U	9001SKR1U
<b>Illuminated (LED) pushbutton</b>	Red, Clear guard, 24 VAC/DC, N.O. + N.C. contact block	9001K 1L35LRRH13	9001SK 1L35LRRH13	Illuminated pushbutton body, clear guard (operator only)	9001K1L	9001SK1L
				Red LED light module, 24 VAC/DC	9001KM35LR	9001KM35LR
				Red pushbutton lens	9001R7	9001R7
	Green, Clear guard, 24 VAC/DC, N.O. + N.C. contact block	9001K 1L35LGGH13	9001SK 1L35LGGH13	Illuminated pushbutton body, clear guard (operator only)	9001K1L	9001SK1L
				Green LED light module, 24 VAC/DC	9001KM35LG	9001KM35LG
				Green pushbutton lens	9001G7	9001G7
	Yellow, Clear guard, 24 VAC/DC, N.O. + N.C. contact block	9001K 1L35LYYH13	9001SK 1L35LYYH13	Illuminated pushbutton body, clear guard (operator only)	9001K1L	9001SK1L
				Yellow LED light module, 24 VAC/DC	9001KM35LY	9001KM35LY
				Yellow pushbutton lens	9001Y7	9001Y7
	Red, Clear guard, 120 VAC/DC, N.O. + N.C. contact block	9001K 1L38LRRH13	9001SK 1L38LRRH13	Illuminated pushbutton body, clear guard (operator only)	9001K1L	9001SK1L
				Red LED light module, 120 VAC/DC	9001KM38LR	9001KM38LR
				Red pushbutton lens	9001R7	9001R7
	Green, Clear guard, 120 VAC/DC, N.O. + N.C. contact block	9001K 1L38LGGH13	9001SK 1L38LGGH13	Illuminated pushbutton body, clear guard (operator only)	9001K1L	9001SK1L
				Green LED light module, 120 VAC/DC	9001KM38LG	9001KM38LG
				Green pushbutton lens	9001G7	9001G7
	Yellow, Clear guard, 120 VAC/DC, N.O. + N.C. contact block	9001K 1L38LYYH13	9001SK 1L38LYYH13	Illuminated pushbutton body, clear guard (operator only)	9001K1L	9001SK1L
				Yellow LED light module, 120 VAC/DC	9001KM38LY	9001KM38LY
				Yellow pushbutton lens	9001Y7	9001Y7
	Red, No guard, 24 VAC/DC, N.O. + N.C. contact block	9001K 2L35LRRH13	9001SK 2L35LRRH13	Illuminated pushbutton body, no guard (operator only)	9001K2L	9001SK2L
				Red LED light module, 24 VAC/DC	9001KM35LR	9001KM35LR
				Red pushbutton lens	9001R7	9001R7
	Green, No guard, 24 VAC/DC, N.O. + N.C. contact block	9001K 2L35LGGH13	9001SK 2L35LGGH13	Illuminated pushbutton body, no guard (operator only)	9001K2L	9001SK2L
				Green LED light module, 24 VAC/DC	9001KM35LG	9001KM35LG
				Green pushbutton lens	9001G7	9001G7
Yellow, No guard, 24 VAC/DC, N.O. + N.C. contact block	9001K 2L35LYYH13	9001SK 2L35LYYH13	Illuminated pushbutton body, no guard (operator only)	9001K2L	9001SK2L	
			Yellow LED light module, 24 VAC/DC	9001KM35LY	9001KM35LY	
			Yellow pushbutton lens	9001Y7	9001Y7	
Red, No guard, 120 VAC/DC, N.O. + N.C. contact block	9001K 2L38LRRH13	9001SK 2L38LRRH13	Illuminated pushbutton body, no guard (operator only)	9001K2L	9001SK2L	
			Red LED light module, 120 VAC/DC	9001KM38LR	9001KM38LR	
			Red pushbutton lens	9001R7	9001R7	
Green, No guard, 120 VAC/DC, N.O. + N.C. contact block	9001K 2L38LGGH13	9001SK 2L38LGGH13	Illuminated pushbutton body, no guard (operator only)	9001K2L	9001SK2L	
			Green LED light module, 120 VAC/DC	9001KM38LG	9001KM38LG	
			Green pushbutton lens	9001G7	9001G7	
Yellow, No guard, 120 VAC/DC, N.O. + N.C. contact block	9001K 2L38LYYH13	9001SK 2L38LYYH13	Illuminated pushbutton body, no guard (operator only)	9001K2L	9001SK2L	
			Yellow LED light module, 120 VAC/DC	9001KM38LY	9001KM38LY	
			Yellow pushbutton lens	9001Y7	9001Y7	
<b>Emergency stops</b>	Turn-to-Release mushroom button, 2 N.O. + 2 N.C. contact blocks	9001KR16H2	9001SKR16H2	Turn-to-Release mushroom button (operator only)	9001KR16	–
<b>Mushroom head pushbuttons</b>	Red, push-pull, 1 N.O. + 1 N.C. contact block	9001KR9RH13	9001SKR9RH13	Red, push-pull mushroom body	9001KR9	9001SKR9
				Red, mushroom button	9001R22	9001R22
	Black, push-pull, 1 N.O. + 1 N.C. contact block	9001KR9BH13	9001SKR9BH13	Black, push-pull mushroom body	9001KR9	9001SKR9
				Black, mushroom button	9001B23	9001B23




# Harmony™ 9001K and 9001SK Ø 30 mm metal and plastic control devices and accessories



		Assembled units		Complete unit = operator + contact block(s) + light modules (illuminated units only) (See page 7 for contact blocks.)		
	Description	Metal (9001K)	Plastic (9001SK)	Description	Metal (9001K)	Plastic (9001SK)
Pilot lights (LED)	Red, 24 VAC/DC	9001KP35LRR9	9001SKP35LRR9	Red pilot light (operator only)	9001KP	9001SKP
				Red pilot light lens	9001R9	9001R9
				Red LED light module, 24 VAC/DC	9001KM35LR	9001KM35LR
	Green, 24 VAC/DC	9001KP35LGG9	9001SKP35LGG9	Green pilot light (operator only)	9001KP	9001SKP
				Green pilot light lens	9001G9	9001G9
				Green LED light module, 24 VAC/DC	9001KM35LG	9001KM35LG
	Yellow, 24 VAC/DC	9001KP35LYY9	9001SKP35LYY9	Yellow pilot light (operator only)	9001KP	9001SKP
				Yellow pilot light lens	9001Y9	9001Y9
				Yellow LED light module, 24 VAC/DC	9001KM35LY	9001KM35LY
	Red, 120 VAC/DC	9001KP38LRR9	9001SKP38LRR9	Red pilot light (operator only)	9001KP	9001SKP
				Red pilot light lens	9001R9	9001R9
				Red LED light module, 120 VAC/DC	9001KM38LR	9001KM38LR
Green, 120 VAC/DC	9001KP38LGG9	9001SKP38LGG9	Green pilot light (operator only)	9001KP	9001SKP	
			Green pilot light lens	9001G9	9001G9	
			Green LED light module, 120 VAC/DC	9001KM38LG	9001KM38LG	
Yellow, 120 VAC/DC	9001KP38LYY9	9001SKP38LYY9	Yellow pilot light (operator only)	9001KP	9001SKP	
			Yellow pilot light lens	9001Y9	9001Y9	
			Yellow LED light module, 120 VAC/DC	9001KM38LY	9001KM38LY	
Selector switches	2-Position, maintained, 1 N.O. + 1 N.C. contact block	9001KS11BH13	9001SKS11BH13	2-Position, maintained (operator only)	9001KS11B	9001SKS11B
	2-Position, spring return, 1 N.O. + 1 N.C. contact block	9001KS34BH13	9001SKS34BH13	2-Position, spring return (operator only)	9001KS34B	9001SKS34B
	3-Position, maintained, 1 N.O. + 1 N.C. contact block	9001KS43BH13	9001SKS43BH13	3-Position, maintained (operator only)	9001KS43B	9001SKS43B
	3-Position, spring return, 1 N.O. + 1 N.C. contact block	9001KS53BH13	9001SKS53BH13	3-Position, spring return (operator only)	9001KS53B	9001SKS53B

Components and accessories for Ø 30 mm control devices		
	Description	Reference
<b>Contact blocks</b>	1 N.O. + 1 N.C. contact block	9001KA1
<b>Legend plates</b>	Blank standard black legend plate for metal operators	9001KN200
	Blank large black legend plate for metal operators	9001KN300
	"Emergency Stop" yellow legend plate for metal operators	9001KN9330
	"Stop" red legend plate for metal operators	9001KN202
	"START" black legend plate for metal operators	9001KN201
	"HAND OFF AUTO" black legend plate for metal operators	9001KN260
	"OFF ON" black legend plate for metal operators	9001KN244
	1 3/4" Blank black legend plate for plastic operators	9001KN200BP
	2 1/4" Blank black legend plate for plastic operators	9001KN100BP
	"Emergency Stop" yellow legend plate for plastic operators	9001KN9330
	"Stop" red legend plate for plastic operators	9001KN202RP
	"START" black legend plate for plastic operators	9001KN201BP
"HAND OFF AUTO" black legend plate for plastic operators	9001KN260BP	
"OFF ON" black legend plate for plastic operators	9001KN244BP	
<b>Boots and guards</b>	Gloved hand selector switch knob-black	9001B25
	Standard pushbutton boot-black	9001KU1
	Standard pushbutton boot-red	9001KU2
	Standard pushbutton boot-green	9001KU5
	Standard pushbutton boot-clear	9001KU7
	Selector switch boot-clear	9001KU17

# TeSys™ motor control and protection solutions

	Circuit breakers	Motor circuit protectors	Fusible disconnects	Non-fused disconnects	Fuse holders	Manual motor protectors	Contactors	Overload relays	Motor starters	Combination motor controllers
Range name	PPB, Multi 9	TeSys BV4	TeSys GS	TeSys VLS, MD	TeSys DF	TeSys GV	TeSys D, F	TeSys D	TeSys H	TeSys U
Product reference prefix	B, M9	BV4	GS	VLS, MD	DF	GV	LC	LR	LZ	LU
Motor starter structure - 4 functions:										
 Disconnect	■	■	■	■	—	■	—	—	—	■
Short-circuit protection	■	■ (1)	■	—	■	■ (2)	—	—	—	■ (2)
Motor controller	—	—	—	—	—	—	■	—	■	■
Overload protection	—	—	—	—	—	■	—	■	■	■

Notes: (1) When used as a Type D combination motor controller. (2) When used as a Type E or F combination motor controller.

## Type F combination motor controller

Motor HP 460 V	1/2	3/4	1	1-1/2	2	3	5	7-1/2	10	15	20	25	30	40
Full load current (NEC Table 430.250)	1.1 A	1.6 A	2.1 A	3 A	3.4 A	4.8 A	7.6 A	11 A	14 A	21 A	27 A	34 A	40 A	52 A
SCCR 480 Y/277 V	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	50 kA (2)	50 kA (2)	50 kA (2)	65 kA	65 kA	65 kA	65 kA
Manual motor protector (1)	GV2P06	GV2P07	GV2P07	GV2P08	GV2P08	GV2P10	GV2P14	GV2P16	GV2P20	GV2P21	GV3P32	GV3P40	GV3P50	GV3P65
Overload range	1–1.6 A	1.6–2.5 A	1.6–2.5 A	2.5–4 A	2.5–4 A	4–6.3 A	6–10 A	9–14 A	13–18 A	17–23 A	23–32 A	30–40 A	37–50 A	48–65 A
Contactor (3)	LC1D09	LC1D09	LC1D09	LC1D09	LC1D09	LC1D09	LC1D12	LC1D18	LC1D25	LC1D25	LC1D40A	LC1D40A	LC1D50A	LC1D65A

Notes: (1) Type F combination requires use of GV1G09 line spacer for GV2 or GV3G66 line spacer for GV3. Permissible to use GV2G busbars with GV1G09 for the GV2 to reduce wiring installation efforts. (2) Type F combination SCCR is 42 kA 480Y / 277V when using GVG2 busbars with GV1G09 on GV2P16 to GV2P21. (3) Complete the contactor part number by adding the coil voltage suffix from TABLE A. For example, LC1D09G7 includes a 120 VAC coil.

**TABLE A:**  
Voltage coil codes for TeSys LC1 Contactors

	24 V	24 V	120 V	100–250 V
LC1 Contactor	AC	DC	AC	AC/DC
D09–D32	B7	BL	G7	KUE
D40A–D65A	B7	BBE	G7	KUE
D80–D150	B7	BD	G7	
F115–F330		BD	G7	

## Type E combination motor controller

Motor HP 460 V	1/2	3/4	1	1-1/2	2	3	5	7-1/2	10	15	20
Full load current (NEC Table 430.250)	1.1 A	1.6 A	2.1 A	3 A	3.4 A	4.8 A	7.6 A	11 A	14 A	21 A	27 A
Base (1)	LUB12	LUB12	LUB12	LUB12	LUB12	LUB12	LUB12	LUB12	LUB32	LUB32	LUB32
Trip unit (2)	LUCA1X	LUCA05	LUCA05	LUCA05	LUCA12	LUCA12	LUCA12	LUCA12	LUCA18	LUCA32	LUCA32
Overload range	0.3–1.4 A	1.25–5 A	1.25–5 A	1.25–5 A	3–12 A	3–12 A	3–12 A	3–12 A	4.5–18 A	8–32 A	8–32 A
SCCR 480 Y/277 V	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA

Notes: (1) Type E combination requires use of LU9SP0 line spacer or GV1G09 line spacer. Permissible to use GV2G busbars with GV1G09 to reduce wiring installation efforts. (2) Complete the contactor part number by adding the coil voltage suffix from TABLE B. For example, LUCA12FU includes a 120 VAC coil.


**TABLE B:**  
Voltage coil codes for TeSys U Starters

	24 V	24 V	120–240 V
LUC Trip units	AC	DC	AC/DC
	B	BL	FU


Consult the Schneider Electric Digest for more product selection options and information.

# TeSys™ motor control and protection solutions


## Accessories for TeSys™ D contactors

	Auxiliary contacts for LC1 D09–D150	4 NC top mount	LADN04
		2 NO 2 NC top mount	LADN22
		3 NO 1 NC top mount	LADN31
		4 NO top mount	LADN40
		1 NO 1 NC side mount	LAD8N11
		2 NO side mount	LAD8N20
RC coil suppressor	For LC1 D09–D32 110–240 VAC	LAD4RCU	
Reversing kits for LC1 D09–D32	Without electrical interlock	LAD9R1	
	With electrical interlock	LAD9R1V	
Pneumatic time delay for LC1 D09–D150	On-delay timer 0.1 to 30 s	LADT2	

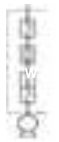
## Accessories for TeSys GV2 manual motor protectors

	Connection accessories	Line Spacer for GV2	GV1G09
		Busbars for feeding 3 GV2 starters	GV2G345
		Busbars for feeding 4 GV2 starters (54 mm spacing)	GV2G454
		Connection block for GV2 and LC1 D09–D32	GV2AF3
Auxiliary contacts	1 NO 1 NC front mount for GV2 or 3	GVAE11	
	1 NO 1 NC side mount for GV2 or 3	GVAN11	
Enclosures	NEMA 1 surface mount (CSA listed)	GV2MC01	
	NEMA 12/4 surface mount (CSA listed)	GV2MC02	

## Accessories for TeSys U motor starters

	Auxiliary contacts	Ready/fault contact status	LUA1C20
		1 NO 1 NC contact	LUFN11
		2 NO contact	LUFN20
		Line spacer	LU9SP0
		Line spacer for use with GV2G busbars	GV1G09
		Busbars for feeding 3 GV2 starters	GV2G345

# TeSys™ motor control and protection solutions

	Circuit breakers	Motor circuit protectors	Fusible disconnects	Non-fused disconnects	Fuse holders	Manual motor protectors	Contactors	Overload relays	Motor starters	Combination motor controllers
Range name	PPB, Multi 9	TeSys BV4	TeSys GS	TeSys VLS, MD	TeSys DF	TeSys GV	TeSys D, F	TeSys D	TeSys H	TeSys U
Product reference prefix	B, M9	BV4	GS	VLS, MD	DF	GV	LC	LR	LZ	LU
Motor starter structure - 4 functions:										
 Disconnect	■	■	■	■	—	■	—	—	—	■
Short-circuit protection	■	■ (1)	■	—	■	■ (2)	—	—	—	■ (2)
Motor controller	—	—	—	—	—	—	■	—	■	■
Overload protection	—	—	—	—	—	■	—	■	■	■

Notes: (1) When used as a Type D combination motor controller. (2) When used as a Type E or F combination motor controller.

## Circuit breaker + contactor + overload relay

Motor HP 460 V	1/2	3/4	1	1-1/2	2	3	5	7-1/2	10
Full load current (NEC Table 430.250)	1.1 A	1.6 A	2.1 A	3 A	3.4 A	4.8 A	7.6 A	11 A	14 A
Circuit breaker (1)	BJL36015	BJL36015	BJL36015	BJL36015	BJL36015	BJL36015	BJL36015	BJL36025	BJL36030
Interrupting rating 480 V	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA
Ampacity	15 A	15 A	15 A	15 A	15 A	15 A	15 A	25 A	30 A
Contactor (2)	LC1D09	LC1D09	LC1D09	LC1D09	LC1D09	LC1D09	LC1D09	LC1D12	LC1D18
SCCR with breaker shown	85 kA	85 kA	85 kA	85 kA	85 kA	85 kA	85 kA	85 kA	85 kA
Thermal overload class 10	LRD06	LRD07	LRD07	LRD08	LRD08	LRD10	LRD12	LRD16	LRD21
Overload range	1–1.6 A	1.6–2.5 A	1.6–2.5 A	2.5–4 A	2.5–4 A	4–6 A	5.5–8 A	9–13 A	12–18 A
SCCR with breaker shown	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA
Electronic overload	LR9D02	LR9D02	LR9D08	LR9D08	LR9D08	LR9D08	LR9D32	LR9D32	LR9D32
Overload range	0.4–2 A	0.4–2 A	1.6–8 A	1.6–8 A	1.6–8 A	1.6–8 A	6.4–32 A	6.4–32 A	6.4–32 A
SCCR with breaker shown	5 kA	5 kA	10 kA	10 kA	10 kA	10 kA	65 kA	65 kA	65 kA

Notes: (1) For alternate interrupting ratings at 480Y/277V, replace the “J” in the part number with “D” for 18 kA, or “G” for 35 kA. (2) Complete the contactor part number by adding the coil voltage suffix from TABLE A. For example, LC1D09G7 includes a 120 VAC coil.

**TABLE A:**  
Voltage coil codes for TeSys LC1 Contactors

LC1 Contactor	24 V	24 V	120 V	100–250 V
	AC	DC	AC	AC/DC
D09–D32	B7	BL	G7	KUE
D40A–D65A	B7	BBE	G7	KUE
D80–D150	B7	BD	G7	
F115–F330		BD	G7	

Consult the Schneider Electric Digest for more product selection options and information.

# TeSys™ motor control and protection solutions

## Circuit breaker + contactor + overload relay



Motor HP 460 V	15	20	25	30	40	50	60	75	100
Full load current (NEC Table 430.250)	21 A	27 A	34 A	40 A	52 A	65 A	77 A	96 A	124 A
Circuit breaker (1)	BJL36045	BJL36060	BJL36070	BJL36080	BJL36110	BJL36125	HJL36150	JJL36200	JJL36250
Interrupting rating 480 V	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA
Ampacity	45 A	60 A	70 A	80 A	110 A	125 A	150 A	200 A	250 A
Contactor (2)	LC1D25	LC1D32	LC1D40A	LC1D40A	LC1D50A	LC1D80	LC1D80	LC1D115	LC1D150
SCCR with breaker shown	85 kA	85 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA
Thermal overload class 10	LRD22	LRD32	LRD340	LRD350	LRD365	LRD3361	LRD3363	LRD4365	LRD4369
Overload range	16–24 A	23–32 A	30–40 A	37–50 A	48–65 A	55–70 A	63–80 A	80–104 A	110–140 A
SCCR with breaker shown	65 kA	65 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA
Electronic overload	LR9D32	LR9D32	LR9D110S	LR9D110S	LR9D110S	LR9D110S	LR9D110S	LR9D110S	LR9D110S
Overload range	6.4–32 A	6.4–32 A	22–110 A	22–110 A	22–110 A	22–110 A	22–110 A	22–110 A	22–110 A
SCCR with breaker shown	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA


Notes: (1) For alternate interrupting ratings at 480Y/277V, replace the "J" in the part number with "D" for 18 kA, or "G" for 35 kA. (2) Complete the contactor part number by adding the coil voltage suffix from TABLE A. For example, LC1D09G7 includes a 120 VAC coil.

## Accessories for TeSys D contactors and overload relays








Auxiliary contacts for LC1 D09–D150	4 NC top mount	LADN04
	2 NO 2 NC top mount	LADN22
	3 NO 1 NC top mount	LADN31
	4 NO top mount	LADN40
	1 NO 1 NC side mount	LAD8N11
	2 NO side mount	LAD8N20
Surge suppressor	For LC1 D09–D32 110–240 VAC	LAD4RCU
Reversing kits for LC1 D09–D32	Without electrical interlock	LAD9R1
	With electrical interlock	LAD9R1V
Pneumatic time delay for LC1 D09–D150	On-delay timer 0.1 to 30 s	LADT2
Separate mount adapter for overload relay	For LRD01–35 and LR3D01-35	LAD7B10
	For LRD3, LR3D3 and LR2D35	LA7D3064

# TeSys™ motor control and protection solutions

	Circuit breakers	Motor circuit protectors	Fusible disconnects	Non-fused disconnects	Fuse holders	Manual motor protectors	Contactors	Overload relays	Motor starters	Combination motor controllers
Range name	PPB, Multi 9	TeSys BV4	TeSys GS	TeSys VLS, MD	TeSys DF	TeSys GV	TeSys D, F	TeSys D	TeSys H	TeSys U
Product reference prefix	B, M9	BV4	GS	VLS, MD	DF	GV	LC	LR	LZ	LU
Motor starter structure - 4 functions:										
 Disconnect	■	■	■	■	—	■	—	—	—	■
Short-circuit protection	■	■ (1)	■	—	■	■ (2)	—	—	—	■ (2)
Motor controller	—	—	—	—	—	—	■	—	■	■
Overload protection	—	—	—	—	—	■	—	■	■	■

Notes: (1) When used as a Type D combination motor controller. (2) When used as a Type E or F combination motor controller.

## Disconnect + fuses + contactor + overload relay

	Motor HP 460 V	1/2	3/4	1	1-1/2	2	3	5	7-1/2	10
Full load current (NEC Table 430.250)		1.1 A	1.6 A	2.1 A	3 A	3.4 A	4.8 A	7.6 A	11 A	14 A
 Fused disconnect (UL 98)	GS1DDU3	GS1DDU3	GS1DDU3	GS1DDU3	GS1DDU3	GS1DDU3	GS1DDU3	GS1DDU3	GS1DDU3	GS1DU3
Fuse class/ampacity	CC 3 A	CC 4.5 A	CC 6 A	CC 9 A	CC 10 A	CC 15 A	CC 20 A	CC 30 A	CC 30 A	J 25 A
SCCR	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA
 Non-fused disconnect (UL 98)	VLS3P063R2	VLS3P063R2	VLS3P063R2	VLS3P063R2	VLS3P063R2	VLS3P063R2	VLS3P063R2	VLS3P063R2	VLS3P063R2	VLS3P063R2
Ampacity	60 A	60 A	60 A	60 A	60 A	60 A	60 A	60 A	60 A	60 A
SCCR (max fuse/class)	50 kA (60 A J)	50kA (60 A J)	50 kA (60 A J)	50 kA (60 A J)	50 kA (60 A J)	50 kA (60 A J)	50 kA (60 A J)	50 kA (60 A J)	50 kA (60 A J)	50 kA (60 A J)
 Fuse holder	DFCC3	DFCC3	DFCC3	DFCC3	DFCC3	DFCC3	DFCC3	DFCC3	DFCC3	9080FB3611J
Fuse class/ampacity	CC 3 A	CC 4.5 A	CC 6 A	CC 9 A	CC 10 A	CC 15 A	CC 20 A	CC 30 A	CC 30 A	J 25 A
SCCR	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA
 Contactor (2)	LC1D09	LC1D09	LC1D09	LC1D09	LC1D09	LC1D09	LC1D09	LC1D09	LC1D12	LC1D18
SCCR with fuse shown	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA
Thermal overload class 10	LRD06	LRD07	LRD07	LRD08	LRD08	LRD10	LRD12	LRD16	LRD16	LRD21
Overload range	1–1.6 A	1.6–2.5 A	1.6–2.5 A	2.5–4 A	2.5–4 A	4–6 A	5.5–8 A	9–13 A	9–13 A	12–18 A
SCCR with fuse shown	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA
 Electronic overload	LR9D02	LR9D02	LR9D08	LR9D08	LR9D08	LR9D08	LR9D08	LR9D32	LR9D32	LR9D32
Overload range	0.4–2 A	0.4–2 A	1.6–8 A	1.6–8 A	1.6–8 A	1.6–8 A	1.6–8 A	6.4–32 A	6.4–32 A	6.4–32 A
SCCR with fuse shown	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA

Notes: (2) Complete the contactor part number by adding the coil voltage suffix from TABLE A. For example LC1D09G7 includes a 120 VAC coil.

**TABLE A:**  
Voltage coil codes for TeSys LC1 Contactors

	24 V	24 V	120 V	100–250 V
LC1 Contactor	AC	DC	AC	AC/DC
D09–D32	B7	BL	G7	KUE
D40A–D65A	B7	BBE	G7	KUE
D80–D150	B7	BD	G7	
F115–F330		BD	G7	

Consult the Schneider Electric Digest for more product selection options and information.

# TeSys™ motor control and protection solutions

## Disconnect + fuses + contactor + overload relay

Motor HP	15	20	25	30	40	50	60	75	100
Full load current (NEC Table 430.250)	21 A	27 A	34 A	40 A	52 A	65 A	77 A	96 A	124 A
Fused disconnect (UL 98)	GS2JU3N	GS2JU3N	GS2JU3N	GS2JU3N	GS2JU3N	GS2MU3N	GS2MU3N	GS2MU3N	GS2QU3N
Fuse class/ampacity	J 35 A	J 45 A	J 60 A	J 70 A	J 90 A	J 110 A	J 150 A	J 175 A	J 225 A
SCCR	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA
Non-fused disconnect (UL 98)	VLS3P063R2	VLS3P063R2	VLS3P063R2	VLS3P080R2	VLS3P100R2	LK4JU3CN	LK4MU3CN	LK4MU3CN	LK4MU3CN
Ampacity	60 A	60 A	60 A	80 A	100 A	100 A	200 A	200 A	200 A
SCCR (max fuse/class)	50 kA (60 A J)	50 kA (60 A J)	50 kA (60 A J)	200 kA (100 A J)	200 kA (100 A J)	200 kA (100 A J)	200 kA (200 A J)	200 kA (200 A J)	200 kA (200 A J)
Fuse holder	9080FB3621J	9080FB3621J	9080FB3621J						
Fuse class/ampacity	J 35 A	J 45 A	J 60 A	J 70 A	J 90 A	J 110 A	J 150 A	J 175 A	J 225 A
SCCR	200 kA	200 kA	200 kA						
Contactor (2)	LC1D25	LC1D32	LC1D40A	LC1D40A	LC1D50A	LC1D80	LC1D80	LC1D115	LC1D150
SCCR with fuse shown	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA
Thermal overload class 10	LRD22	LRD32	LRD340	LRD350	LRD365	LRD3361	LRD3363	LRD4365	LRD4369
Overload range	16–24 A	23–32 A	30–40 A	37–50 A	48–65 A	55–70 A	63–80 A	80–104 A	110–140 A
SCCR with fuse shown	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	10 kA
Electronic overload	LR9D32	LR9D32	LR9D110S	LR9D110S	LR9D110S	LR9D110S	LR9D110S	LR9D110S	LR9D110S
Overload range	6.4–32 A	6.4–32 A	22–110 A	22–110 A	22–110 A	22–110 A	22–110 A	22–110 A	22–110 A
SCCR with fuse shown	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA

Notes: (2) Complete the contactor part number by adding the coil voltage suffix from TABLE A. For example LC1D09G7 includes a 120 VAC coil.

## Accessories for disconnects: GS



GS handle	NEMA 4/4X black handle for 30-400 A GS2 or 100-400 A LK4	GS2AH430
	NEMA 4/4X red/yellow handle for 30-400 A GS2 or 100-400 A LK4	GS2AH440
GS shaft	12.6-inch shaft for 30-400 A GS2 or 100-400 A LK4	GS2AE2

## Accessories for disconnects: VLS

See page 14

## Accessories for TeSys D contactors


See page 9

## Accessories for TeSys D overload relays

See page 11






# TeSys™ motor control and protection solutions



	Circuit breakers	Motor circuit protectors	Fusible disconnects	Non-fused disconnects	Fuse holders	Manual motor protectors	Contactors	Overload relays	Motor starters	Combination motor controllers
Range name	PPB, Multi 9	TeSys BV4	TeSys GS	TeSys VLS, MD	TeSys DF	TeSys GV	TeSys D, F	TeSys D	TeSys H	TeSys U
Product reference prefix	B, M9	BV4	GS	VLS, MD	DF	GV	LC	LR	LZ	LU
Motor starter structure - 4 functions:										
 Disconnect	■	■	■	■	—	■	—	—	—	■
Short-circuit protection	■	■ (1)	■	—	■	■ (2)	—	—	—	■ (2)
Motor controller	—	—	—	—	—	—	■	—	■	■
Overload protection	—	—	—	—	—	■	—	■	■	■

Notes: (1) When used as a Type D combination motor controller. (2) When used as a Type E or F combination motor controller.

## Motor disconnects

Motor HP 460 V	1/2	3/4	1	1-1/2	2	3	5	7-1/2	10
Full load current (NEC Table 430.250)	1.1 A	1.6 A	2.1 A	3 A	3.4 A	4.8 A	7.6 A	11 A	14 A
 Open disconnect	VLS3P016R1	VLS3P016R1	VLS3P016R1	VLS3P016R1	VLS3P016R1	VLS3P016R1	VLS3P016R1	VLS3P016R1	VLS3P016R1
Ampacity	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A
SCCR	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA
 Open disconnect—door mount	VLS3P016D1	VLS3P016D1	VLS3P016D1	VLS3P016D1	VLS3P016D1	VLS3P016D1	VLS3P016D1	VLS3P016D1	VLS3P016D1
Ampacity	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A
SCCR	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA
 Enclosed 4X disconnect	MD3304X	MD3304X	MD3304X	MD3304X	MD3304X	MD3304X	MD3304X	MD3304X	MD3304X
Ampacity	30 A	30 A	30 A	30 A	30 A	30 A	30 A	30 A	30 A
SCCR (max fuse class/size)	65 kA (J 30 A)	65 kA (J 30 A)	65 kA (J 30 A)	65 kA (J 30 A)	65 kA (J 30 A)	65 kA (J 30 A)	65 kA (J 30 A)	65 kA (J 30 A)	65 kA (J 30 A)




## Accessories for disconnects: VLS

	VLS handle	Recessed red/yellow selector handle	VLSH1S5R
		Protruding red/yellow selector handle	VLSH2S5R
		Protruding red/yellow selector handle for 16–40 A door mount	VLSH2H5R
		Defeatable protruding red/yellow selector handle for 16–40 A door mount	VLSH2H5RD
		Recessed black selector handle	VLSH1S5B
		Protruding black selector handle	VLSH2S5B
		Defeatable protruding black selector handle for 16-40 A door mount	VLSH2H5BD
VLS shaft	11.8-inch shaft	VLSS3005	
	19.7-inch shaft	VLSS5005	
	VLS contact accessories	Add-on fourth pole for VLS3P016R1 to 040R1	VLS1P040R1S
		Add-on fourth pole for VLS3P063R1	VLS1P063R1S
		Add-on fourth pole for VLS3P063D1	VLS1P063D2S
		Early-make add-on fourth pole for VLS3P016R1 to 040R1	VLS1P040R1E
		1 NO 1 NC side mount contact for VLS3P...R1	VLSA11RS
		1 NO 1 NC side mount contact for VLS3P...D1	VLSA11DS
VLS fuse holder	Add-on class CC fuse holder for VLS3p016R1 to 032R1	VLSFH1UL	

Consult the Schneider Electric Digest for more product selection options and information.

# TeSys™ motor control and protection solutions


## Motor disconnects

	Motor HP 460 V	15	20	25	30	40	50	60
	Full load current (NEC Table 430.250)	21 A	27 A	34 A	40 A	52 A	65 A	77 A
	Open disconnect	VLS3P025R1	VLS3P032R1	VLS3P063R1	VLS3P063R1	VLS3P063R2	VLS3P100R2	VLS3P125R2
	Ampacity	25 A	32 A	60 A	60 A	60 A	100 A	100 A
	SCCR	5 kA	5 kA	5 kA	5 kA	50 kA (60 A J)	50 kA (100 A J)	50 kA (100 A J)
	Open disconnect—door mount	VLS3P025D1	VLS3P032D1	VLS3P063D2	VLS3P063D2	VLS3P063D2	VLS3P100D2	VLS3P125D2
	Ampacity	25 A	32 A	60 A	60 A	60 A	100 A	100 A
	SCCR	5 kA	5 kA	50 kA (60 A J)	50 kA (60 A J)	50 kA (60 A J)	50 kA (100 A J)	50 kA (100 A J)
	Enclosed 4X disconnect	MD3304X	MD3304X	MD3604X	MD3604X	MD3604X		
	Ampacity	30 A	30 A	60 A	60 A	60 A		
	SCCR (max fuse class/size)	65 kA (J 30 A)	65 kA (J 30 A)	50 kA (J 100 A)	50 kA (J 100 A)	50 kA (J 100 A)		

Accessories for disconnects: VLS

See page 14

# NEMA and definite purpose motor control

	Circuit breakers	Motor circuit protectors	Fusible disconnects	Non-fused disconnects	Fuse holders	Manual motor protectors	Contactors	Overload relays	Motor starters	Combination motor controllers
Range name	PPB, Multi 9	TeSys BV4	TeSys GS	TeSys VLS, MD	TeSys DF	TeSys GV	TeSys D, F	TeSys D	TeSys H	TeSys U
Product reference prefix	B, M9	BV4	GS	VLS, MD	DF	GV	LC	LR	LZ	LU
Motor starter structure - 4 functions:										
 Disconnect	■	■	■	■	—	■	—	—	—	■
Short-circuit protection	■	■ (1)	■	—	■	■ (2)	—	—	—	■ (2)
Motor controller	—	—	—	—	—	—	■	—	■	■
Overload protection	—	—	—	—	—	■	—	■	■	■

Notes: (1) When used as a Type D combination motor controller. (2) When used as a Type E or F combination motor controller.

## Circuit breaker + contactor + overload relay

Motor HP 460 V	1/2	3/4	1	1-1/2	2	3	5	7-1/2
Full load current (NEC Table 430.250)	1.1 A	1.6 A	2.1 A	3 A	3.4 A	4.8 A	7.6 A	11 A
Circuit breaker (1)	BJL36015	BJL36015	BJL36015	BJL36015	BJL36015	BJL36015	BJL36015	BJL36025
Interrupting rating 480 V	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA
Ampacity	15 A	15 A	15 A	15 A	15 A	15 A	15 A	25 A
Contactor (2)	T02AN13	T02AN13	T02AN13	T02AN13	T02AN13	T02BN13	T02BN13	T02CN13
NEMA size	00	00	00	00	00	0	0	1
SCCR with circuit breaker shown	85 kA	85 kA	85 kA	85 kA	85 kA	85 kA	85 kA	85 kA
Thermal overload class 20	LRD06L	LRD07L	LRD07L	LRD08L	LRD08L	LRD10L	LRD12L	LRD16L
Overload range	1–1.6 A	1.6–2.5 A	1.6–2.5 A	2.5–4 A	2.5–4 A	4–6 A	5.5–8 A	9–13 A
SCCR with circuit breaker shown	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA	65 kA
Electronic overload	LR9D02	LR9D02	LR9D08	LR9D08	LR9D08	LR9D08	LR9D32	LR9D32
Overload range	0.4–2 A	0.4–2 A	1.6–8 A	1.6–8 A	1.6–8 A	1.6–8 A	6.4–32 A	6.4–32 A
SCCR with circuit breaker shown	5 kA	5 kA	10 kA	10 kA	10 kA	10 kA	65 kA	65 kA

Notes: (1) For alternate interrupting ratings at 480Y/277 V, replace the "J" in the part number with "D" for 18 kA, or "G" for 35 kA. (2) Complete the contactor part number by adding the coil voltage suffix from TABLE C. For example, T02CN13G7 includes a 120 VAC coil.

## Fuse holder + definite purpose (DP) contactor

Motor HP 230 V 1-phase	1/6	1/4	1/3	1/2	3/4	1	1-1/2	2
Full load current (NEC Table 430.248)	1.1 A	1.6 A	2.1 A	3 A	3.4 A	4.8 A	7.6 A	11 A
Fuse holder 2-pole	9080FB2611J	9080FB2611J	9080FB2611J	9080FB2611J	9080FB2611J	9080FB2611J	9080FB2611J	9080FB2611J
Fuse class/ampacity	J 4 A	J 5 A	J 6 A	J 8 A	J 12 A	J 15 A	J 17.5 A	J 25 A
SCCR	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA
Contactor 2-pole (1)	8910DP12	8910DP12	8910DP12	8910DP12	8910DP12	8910DP12	8910DP12	8910DP12
Full load amp rating	20 A	20 A	20 A	20 A	20 A	20 A	20 A	20 A
Resistive load amp rating	30 A	30 A	30 A	30 A	30 A	30 A	30 A	30 A
SCCR with fuse shown	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA
Motor HP 460 V 3-phase	1/2	3/4	1	1-1/2	2	3	5	7-1/2
Full load current (NEC Table 430.250)	1.1 A	1.6 A	2.1 A	3 A	3.4 A	4.8 A	7.6 A	11 A
Fuse holder 3-pole	9080FB3611J	9080FB3611J	9080FB3611J	9080FB3611J	9080FB3611J	9080FB3611J	9080FB3611J	9080FB3611J
Fuse class/ampacity	J 2 A	J 3 A	J 3.5 A	J 5 A	J 6 A	J 8 A	J 12 A	J 20 A
SCCR	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA
Contactor 3-pole (1)	8910DPA13	8910DPA13	8910DPA13	8910DPA13	8910DPA13	8910DPA13	8910DPA13	8910DPA13
Full load amp rating	20 A	20 A	20 A	20 A	20 A	20 A	20 A	20 A
Resistive load amp rating	30 A	30 A	30 A	30 A	30 A	30 A	30 A	30 A
SCCR with fuse shown	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA

Notes: (1) Complete the contactor part number by adding the coil voltage suffix from TABLE D (see page 17). For example, 8910DPA33V02 includes a 120 VAC coil. Consult the Schneider Electric Digest for more product selection options and information.

# NEMA and definite purpose motor control

## Circuit breaker + contactor + overload relay

	Motor HP 460 V	10	15	20	25
Full load current (NEC Table 430.250)	14 A	21 A	27 A	34 A	
Circuit breaker (1)	BJL36030	BJL36045	BJL36060	BJL36070	
Interrupting rating 480 V	65 kA	65 kA	65 kA	65 kA	
Ampacity	30 A	45 A	60 A	70 A	
Contactor (2)	T02CN13	T02DN13	T02DN13	T02DN13	
NEMA size	1	2	2	2	
SCCR with circuit breaker shown	85 kA	100 kA	100 kA	100 kA	
Thermal overload class 20	LRD21L	LRD22L	LRD32L	LRD340L	
Overload range	12–18 A	16–24 A	23–32 A	30–40 A	
SCCR with circuit breaker shown	65 kA	65 kA	65 kA	100 kA	
Electronic overload	LR9D32	LR9D110S	LR9D110S	LR9D110S	
Overload range	6.4–32 A	22–110 A	22–110 A	22–110 A	
SCCR with circuit breaker shown	65 kA	65 kA	65 kA	65 kA	

Notes: (1) For alternate Interrupting ratings at 480Y/277 V, replace the “J” in the part number with “D” for 18 kA, or “G” for 35 kA.  
 (2) Complete the contactor part number by adding the coil voltage suffix from TABLE C. For example, T02CN13G7 includes a 120 VAC coil.

**TABLE C:**  
Voltage coil codes for TeSys N NEMA Contactors

NEMA size	24 V	24 V	120 V
	AC	DC	AC
00	B7	BD	G7
0	B7	BD	G7
1	B7	BD	G7
2	B7	BD	G7
3	B6	BD	G6
4	B6	BD	G6
5			G7
6			G7

## Fuse holder + definite purpose (DP) contactor

	Motor HP 230 V 1-phase	3	5	7-1/2
Full load current (NEC Table 430.248)	14 A	21 A	27 A	
Fuse holder 2-pole	9080FB2621J	9080FB2621J		
Fuse class/ampacity	J 30A	J 50 A	J 70 A	
SCCR	200 kA	200 kA		
Contactor 2-pole (1)	8910DP12	8910DP32	8910DP42	
Full load amp rating	20 A	30 A	40 A	
Resistive load amp rating	30 A	40 A	50 A	
SCCR with fuse shown	100 kA	100 kA	100 kA	


	Motor HP 460 V 3-phase	10	15	20	25
Full load current (NEC Table 430.250)	14 A	21 A	27 A	34 A	
Fuse holder 3-pole	9080FB3611J	9080FB3621J	9080FB3621J	9080FB3621J	
Fuse class/ampacity	J 25 A	J 35 A	J 45 A	J 60 A	
SCCR	200 kA	200 kA	200 kA	200 kA	
Contactor 3-pole (1)	8910DPA13	8910DPA23	8910DPA33	8910DPA43	
Full load amp rating	20 A	25 A	30 A	40 A	
Resistive load amp rating	30 A	35 A	40 A	50 A	
SCCR with fuse shown	100 kA	100 kA	100 kA	100 kA	

Notes: (1) Complete the contactor part number by adding the coil voltage suffix from TABLE D. For example, 8910DPA33V02 includes a 120 VAC coil.

**TABLE D:**  
Voltage coil codes for definite purpose contactors


8910 contactor	24 V	120 V	208–240 V
	AC	AC	AC
	V14	V02	V09

# Circuit protection


	Circuit breakers	Motor circuit protectors	Fusible disconnects	Non-fused disconnects	Fuse holders	Manual motor protectors	Contactors	Overload relays	Motor starters	Combination motor controllers
Range name	PPB, Multi 9	TeSys BV4	TeSys GS	TeSys VLS, MD	TeSys DF	TeSys GV	TeSys D, F	TeSys D	TeSys H	TeSys U
Product reference prefix	B, M9	BV4	GS	VLS, MD	DF	GV	LC	LR	LZ	LU
Motor starter structure - 4 functions:										
 Disconnect	■	■	■	■	—	■	—	—	—	■
Short-circuit protection	■	■ (1)	■	—	■	■ (2)	—	—	—	■ (2)
Motor controller	—	—	—	—	—	—	■	—	■	■
Overload protection	—	—	—	—	—	■	—	■	■	■

Notes: (1) When used as a Type D combination motor controller. (2) When used as a Type E or F combination motor controller.

## Circuit breakers

Current ampacity	0.5–15 A	20 A	25 A	30 A	35 A	40 A	45 A	50 A	60 A	70 A	80 A
 Circuit breaker (1)	BDL36015	BDL36020	BDL36025	BDL36030	BDL36035	BDL36040	BDL36045	BDL36050	BDL36060	BDL36070	BDL36080
Interrupting rating 480 V	18 kA	18 kA	18 kA	18 kA	18 kA	18 kA	18 kA	18 kA	18 kA	18 kA	18 kA
3R/12 rotary handle kit, 6 inch shaft	9421LB1	9421LB1	9421LB1	9421LB1	9421LB1	9421LB1	9421LB1	9421LB1	9421LB1	9421LB1	9421LB1
	90 A	100 A	110 A	125 A	150 A	175 A	200 A	225 A	250 A	400 A	
	BDL36090	BDL36100	BDL36110	BDL36125	HDL36150	JDL36175	JDL36200	JDL36225	JDL36250	LDL36400U31X	
	18 kA	18 kA	18 kA	18 kA	18 kA	18 kA	18 kA	18 kA	18 kA	18 kA	
	9421LB1	9421LB1	9421LB1	9421LB1	9421LH6	9421LH6	9421LH6	9421LH6	9421LH6	9421LH6	

Notes: (1) For alternate Interrupting ratings at 480Y/277 V, replace the "D" in the part number with "G" for 35 kA, or "J" for 65 kA.

Current ampacity	0.5 A	1 A	2 A	3 A	4 A	5 A	6 A	8 A
 Mini circuit breaker 1-pole	M9F42170	M9F42101	M9F42102	M9F42103	M9F42104	M9F42105	M9F42106	M9F42108
Interrupting rating 120 V	14 kA	14 kA	14 kA	14 kA	14 kA	14 kA	14 kA	14 kA
		10 A	15 A	20 A	25 A	30 A	35 A	40 A
		M9F42110	M9F42115	M9F42120	M9F42125	M9F42130	M9F42135	M9F42140
		14 kA	14 kA	14 kA	14 kA	14 kA	14 kA	10 kA
Current ampacity		1 A	2 A	3 A	4 A	5 A	6 A	8 A
Mini circuit breaker 2-pole		M9F42201	M9F42202	M9F42203	M9F42204	M9F42205	M9F42206	M9F42208
Interrupting rating 240 V		14 kA	14 kA	14 kA	14 kA	14 kA	14 kA	14 kA
		10 A	15 A	20 A	25 A	30 A	35 A	40 A
		M9F42210	M9F42215	M9F42220	M9F42225	M9F42230	M9F42235	M9F42240
		14 kA	14 kA	14 kA	14 kA	14 kA	14 kA	10 kA
Current ampacity		1 A	2 A	3 A	4 A	5 A	6 A	8 A
Mini circuit breaker 3-pole		M9F42301	M9F42302	M9F42303	M9F42304	M9F42305	M9F42306	M9F42308
Interrupting rating 408 Y/277V		10 kA	10 kA	10 kA	10 kA	10 kA	10 kA	10 kA
		10 A	15 A	20 A	25 A	30 A	35 A	40 A
		M9F42310	M9F42315	M9F42320	M9F42325	M9F42330	M9F42335	M9F42340
		10 kA	10 kA	10 kA	10 kA	10 kA	10 kA (240 V)	10 kA (240 V)

Consult the Schneider Electric Digest for more product selection options and information.

# Circuit protection


## Fusible disconnects



Current ampacity	0.5 A	1 A	2 A	3 A	4–30 A	35–60 A	70–100 A	110–200 A	225–400 A	600 A	800 A
Fused disconnect (UL 98)	GS1DDU3	GS1DDU3	GS1DDU3	GS1DDU3	GS2EEU3	GS2GU3N	GS2JU3N	GS2MU3N	GS2QU3N	GS2SU3N	GS2ST3N
Fuse class/ampacity	CC 3 A	CC 4.5 A	CC 6 A	CC 9 A	CC 30 A	J 60 A	J 100 A	J 200 A	J 400 A	J 600 A	L 800 A
SCCR	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	200 kA	200 kA	200 kA	200 kA	200 kA
Black 4/4X rotary handle	GS2 AH410	GS2 AH410	GS2 AH410	GS2 AH410	GS2 AH430	GS2 AH430	GS2 AH430	GS2 AH430	GS2 AH430	GS2 AH150	GS2 AH150
12-inch shaft	GS2 AE8 [1]	GS2 AE8 [1]	GS2 AE8 [1]	GS2 AE8 [1]	GS2 AE2	GS2 AE2	GS2 AE2	GS2 AE2	GS2 AE2	GS2 AE5	GS2 AE5

[1] Use GS2AH100TO200 when using GS1 type disconnects with GS2 handle/shaft.

# Circuit protection

	Circuit breakers	Motor circuit protectors	Fusible disconnects	Non-fused disconnects	Fuse holders	Manual motor protectors	Contactors	Overload relays	Motor starters	Combination motor controllers
Range name	PPB, Multi 9	TeSys BV4	TeSys GS	TeSys VLS, MD	TeSys DF	TeSys GV	TeSys D, F	TeSys D	TeSys H	TeSys U
Product reference prefix	B, M9	BV4	GS	VLS, MD	DF	GV	LC	LR	LZ	LU
Motor starter structure - 4 functions:										
 Disconnect	■	■	■	■	—	■	—	—	—	■
Short-circuit protection	■	■ (1)	■	—	■	■ (2)	—	—	—	■ (2)
Motor controller	—	—	—	—	—	—	■	—	■	■
Overload protection	—	—	—	—	—	■	—	■	■	■

Notes: (1) When used as a Type D combination motor controller. (2) When used as a Type E or F combination motor controller.

## Non-fused disconnects

Current ampacity	0.5–30 A	35–60 A	70–80 A	90–100 A	110–200 A	225–400 A
Non-fused disconnect (UL 98)	VLS3P063R2	VLS3P063R2	VLS3P080R2	VLS3P100R2	LK4MU3CN	LK4QU3CN
Ampacity	60 A	60 A	80 A	100 A	200 A	400 A
SCCR (max fuse/class)	50 kA (60 A J)	50 kA (60 A J)	200 kA (100 A J)	200 kA (100 A J)	200 kA (200 A J)	200 kA (400 A J)
Door-mount disconnect (UL 98)	VLS3P063D2	VLS3P063D2	VLS3P080D2	VLS3P100D2		
Ampacity	60 A	60 A	80 A	100 A		
SCCR (max fuse/class)	50 kA (60 A J)	50 kA (60 A J)	200 kA (100 A J)	200 kA (100 A J)		

## Fuse holders

Current ampacity	0.5–30 A	35 A	40 A	45 A	50 A	60 A
Fuse holder 1-pole	DFCC1					
Fuse class/ampacity	CC 30 A					
SCCR	200 kA					
Fuse holder 2-pole	DFCC2	9080FB2621J	9080FB2621J	9080FB2621J	9080FB2621J	9080FB2621J
Fuse class/ampacity	CC 30 A	J 60 A	J 60 A	J 60 A	J 60 A	J 60 A
SCCR	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA
Fuse holder 3-pole	DFCC3	9080FB3621J	9080FB3621J	9080FB3621J	9080FB3621J	9080FB3621J
Fuse class/ampacity	CC 30 A	J 60 A	J 60 A	J 60 A	J 60 A	J 60 A
SCCR	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA
Fuse holder compact 3-pole	LS1D30					
Fuse class/ampacity	CC 30 A					
SCCR	200 kA					

Consult the Schneider Electric Digest for more product selection options and information.





# Circuit protection

## Non-fused disconnects

Current ampacity	600 A	800 A	1000 A	1200 A
Non-fused disconnect (UL 98)	LK4SU3CN	LK4TU3CN	LK4UU3CN	LK4WU3CN
Ampacity	600 A	800 A	1000 A	1200 A
SCCR (max fuse/class)	200 kA(600AJ)	100 kA(800AL)	100 kA(1000AL)	100 kA(1200AL)

## Accessories for disconnects: VLS

	VLS handle	Recessed red/yellow selector handle	VLSH1S5R
		Protruding red/yellow selector handle	VLSH2S5R
		Protruding red/yellow selector handle for 16–40 A door mount	VLSH2H5R
		Defeatable protruding red/yellow selector handle for 16–40 A door mount	VLSH2H5RD
		Recessed black selector handle	VLSH1S5B
		Protruding black selector handle	VLSH2S5B
		Defeatable protruding black selector handle for 16-40 A door mount	VLSH2H5BD
	VLS shaft	11.8 inch shaft	VLSS3005
		19.7 inch shaft	VLSS5005
	VLS contact accessories	Add-on fourth pole for VLS3P016R1 to 040R1	VLS1P040R1S
		Add-on fourth pole for VLS3P063R1	VLS1P063R1S
		Add-on fourth pole for VLS3P063D1	VLS1P063D2S
		Early-make add-on fourth pole for VLS3P016R1 to 040R1	VLS1P040R1E
		1 NO 1 NC side mount contact for VLS3P...R1	VLSA11RS
		1 NO 1 NC side mount contact for VLS3P...D1	VLSA11DS
	VLS fuse holder	Add-on class CC fuse holder for VLS3p016R1 to 032R1	VLSFH1UL

# Square D™ transformers



## Type T Control Transformer with Primary & Secondary Protection (Supplementary Protectors)

Size VA	480 V Primary: 120 V Secondary			240 V Primary: 120 V Secondary			208 V Primary: 120 V Secondary		
	Transformer	Primary Side 2-Pole Supplementary Protector	Secondary Side 1-Pole Supplementary Protector	Transformer	Primary Side 2-Pole Supplementary Protector	Secondary Side 1-Pole Supplementary Protector	Transformer	Primary Side 2-Pole Supplementary Protector	Secondary Side 1-Pole Supplementary Protector
50	9070T50D1	M9F23201	M9F23101	9070T50D1	M9F23201	M9F23101	9070T50D3	M9F23201	M9F23101
100	9070T100D1	M9F23201	M9F23101	9070T100D1	M9F23202	M9F23101	9070T100D3	M9F23202	M9F23101
200	9070T200D1	M9F23202	M9F23103	9070T200D1	M9F23204	M9F23103	9070T200D3	M9F23205	M9F23103
300	9070T300D1	M9F23203	M9F23104	9070T300D1	M9F23206	M9F23104	9070T300D3	M9F23208	M9F23104
500	9070T500D1	M9F23205	M9F23108	9070T500D1	M9F23205	M9F23108	9070T500D3	M9F23206	M9F23108
1000	9070T1000D1	M9F23205	M9F23113	9070T1000D1	M9F23210	M9F23113	9070T1000D3	M9F23213	M9F23113



## Type TF Control Transformer with Fuse Block for Primary & Secondary Protection (Fuses)

Size VA	480 V Primary: 120 V Secondary			240 V Primary: 120 V Secondary			208 V Primary: 120 V Secondary		
	Transformer	Primary Class CC Fuse Size (A)	Secondary Midget Fuse Size (A)	Transformer	Primary Class CC Fuse Size (A)	Secondary Midget Fuse Size (A)	Transformer	Primary Class CC Fuse Size (A)	Secondary Midget Fuse Size (A)
50	9070TF50D1	0.5	0.8	9070TF50D1	1	0.8	9070TF50D3	1	0.8
100	9070TF100D1	1	1.25	9070TF100D1	2	1.25	9070TF100D3	2.5	1.25
200	9070TF200D1	2	3	9070TF200D1	4	3	9070TF200D3	5	3
300	9070TF300D1	3	4	9070TF300D1	6	4	9070TF300D3	7	4
500	9070TF500D1	5	7	9070TF500D1	5	7	9070TF500D3	6	7
1000	9070TF1000D1	5	14	9070TF1000D1	10	14	9070TF1000D3	12	14

Consult the Schneider Electric Digest for more product selection options and information.

# Square D™ transformers



Type T Control Transformer with Primary Only Protection (Supplementary Protectors)									
Size VA	480 V Primary: 120 V Secondary			240 V Primary: 120 V Secondary			208 V Primary: 120 V Secondary		
	Transformer	Primary Side Supplementary Protector		Transformer	Primary Side 2-Pole Supplementary Protector		Transformer	Primary Side 2-Pole Supplementary Protector	
50	9070T50D1	M9F23201		9070T50D1	M9F23201		9070T50D3	M9F23201	
100	9070T100D1	M9F23201		9070T100D1	M9F23202		9070T100D3	M9F23202	
200	9070T200D1	M9F23202		9070T200D1	M9F23204		9070T200D3	M9F23205	
300	9070T300D1	M9F23203		9070T300D1	M9F23206		9070T300D3	M9F23208	
500	9070T500D1	M9F23205		9070T500D1	M9F23204		9070T500D3	M9F23204	
1000	9070T1000D1	M9F23204		9070T1000D1	M9F23208		9070T1000D3	M9F23208	

# Altistart™ 01 soft starters for 0.37 to 15 kW / 0.5 to 20 HP motors



## Altistart™ 01 soft starters for 0.37 to 11 kW motors and single or 3-phase supply voltage 110...480 V 50/60 Hz (1)

Power for single-phase motor (2)	Under 230 V (kW)	0.37		0.75		1.1		1.5	
	Under 110 V (HP)	–		0.5		–		1	
	Under 230 V (kW)	0.37	0.55	0.75	1.1	1.5	2.2		
	Under 230 V (HP)	0.5	–	1	1.5	2	3		
	Under 400 V (kW)	1.1	–	2.2	3	4	5.5		
Power for 3-phase motor (2)	Under 460 V (HP)	0.5	1.5	2	3	5	7.5		

Nominal current I <sub>cL</sub> (A) (3)	3	6	9	12
Dimensions: W x D x H (mm)	22.5 x 100.4 x 100			45 x 130.7 x 124
Reference	ATS01N103FT	ATS01N106FT	ATS01N109FT	ATS01N112FT

## Altistart 01 soft start/soft stop units for 0.75 to 15 kW motors (4) and 3-phase supply voltage 220...240 V 50/60 Hz (5)

Power for 3-phase motor 220...240 V 50/60 Hz (kW) (2)	0.75/1.1	4/5.5	7.5
Power in HP (2)	1/1.5	5/7.5	10
Nominal current I <sub>cL</sub> (A) (3)	6	22	32
Dimensions: W x D x H (mm)	45 x 130.7 x 124	45 x 130.7 x 154	
Reference	ATS01N206LU	ATS01N222LU	ATS01N232LU

## Altistart 01 start/soft stop units for 0.75 to 15 kW motors (4) and 3-phase supply voltage 440...480 V 50/60 Hz (5)

Power for 3-phase motor 440...480 V 50/60 Hz (kW) (2)	–	–	–	–	–
Power in HP (2)	2/3	5	7.5	10/15	20
Nominal current I <sub>cL</sub> (A) (3)	6	9	12	22	32
Dimensions: W x D x H (mm)	45 x 130.7 x 124			45 x 130.7 x 154	
Reference	ATS01N206RT	ATS01N209RT	ATS01N212RT	ATS01N222RT	ATS01N232RT

(1) Number of possible start-stops/hour: 100 for starting time of 1 s maximum, 20 for starting time of 5 s maximum.

(2) Standard motor power ratings, HP power ratings indicated according to standard UL508. (3) I<sub>cL</sub> corresponds to the starter rating. (4) Control power supply built into the starter.

(5) Number of possible start-stops/hour: 100 for starting time of 1 s maximum, 20 for starting time of 5 s maximum, 10 for starting time of 10 s maximum.

# Altistart 22 soft starters for 3 to 500 HP motors



## Altistart 22 soft start/soft stop units for 3-phase power supply voltage 208...600 V and 110 V control power supply—Connection in the motor power supply line

Motor power in HP	208 V	3	7.5	–	15	20	25	30	40
	230 V	5	10	15	20	25	30	40	50
	460 V	10	10	30	40	50	60	75	100
	575 V	15	25	40	50	60	75	100	125
Nominal current I <sub>cL</sub> (A) (1)	17	32	47	62	75	88	110	140	
Number of starts/hour	Without fan	6	6	6	6	6	6	4	4
	With fan (2)	10	10	10	10	10	10	10	10
Dimensions: W x D x H (mm)	130 x 265 x 169				145 x 295 x 207			150 x 356 x 229	
Reference	ATS22D17S6U	ATS22D32S6U	ATS22D47S6U	ATS22D62S6U	ATS22D75S6U	ATS22D88S6U	ATS22C11S6U	ATS22C14S6U	

Note: All values given for Altistart 22 starters are defined for 3.5 x I<sub>n</sub> and 20s starting time, with motors with thermal protection class 10. These values are for an ambient temperature of 40 °C.

(1) I<sub>cL</sub> corresponds to the starter rating. (2) All soft starters from motor power 75 HP to 200 HP (ATS22C21.. to ATS22C59..) are equipped with a fan as standard.

# Altivar™ 12 ultra-compact variable speed drives for commercial equipment



## Altivar™ 12 drives with heatsink

Supply voltage: 100...120 V 50/60 Hz (1) (2)

Phase		Single-phase		
Motor	Power indicated on plate in kW (3)	0.18	0.37	0.75
	Power indicated on plate in HP (3)	0.25	0.5	1
Altivar 12	Max. continuous output current (3)	1.4	2.4	4.2
	Embedded communication	Modbus Serial Line		
	Application intelligence	Embedded functions		
	Withstand to harsh environment	Up to 60 °C with derating		
Dimensions: W x H x D (mm) (4)		72 x 143 x 102	72 x 143 x 121	105 x 142 x 156
Reference		ATV12 H018F1 (4)	ATV12 H037F1	ATV12 H075F1

Supply voltage: 200...240 V 50/60 Hz (1) (2)

Phase		Single-phase				Three-phase
Motor	Power indicated on plate in kW (3)	0.18	0.75	1.5	2.2	0.75
	Power indicated on plate in HP (3)	0.25	1	2	3	1
Altivar 12	Max. continuous output current (3)	1.4	4.2	7.5	10	4.2
	Dimensions: W x H x D (mm) (4)	72 x 143 x 102	72 x 143 x 131	105 x 142 x 156	72 x 143 x 131	
Reference		ATV12 H018M2 (4)	ATV12 H075M2 (5)	ATV12 HU15M2	ATV12 HU22M2	ATV12 H075M3

Note: Altivar 12 variable speed drives are designed for 3-phase asynchronous motors.

(1) Min. (U1) and max. (U2) nominal supply voltage: 100 (U1)...120 V (U2), 200 (U1)...240 V (U2).

(2) Altivar 12 variable speed drives are supplied with built-in EMC filters and comply with standard IEC/EN 61800-3. For more information, please refer to the product datasheet on our website [www.schneider-electric.com](http://www.schneider-electric.com).

(3) These values are given for a nominal switching frequency of 4 kHz, for continuous operation. For derated operation, please refer to the product catalog. ATV12 variable speed drives can supply transient output current of 1.5 x In for 60 s for every 10 min. cycle.

(4) All dimensions provided are without EMC plate installed.

(5) For the baseplate version of this drive, replace "H" with "P" in the part number. The depth of ATV12P075M2 is 102.2 mm.

## Accessories for Altivar 12 drives

Reference	Description
VW3A1006	Remote keypad display for ATV12 (IP54)
VW3A1104R30	Cable for remote mounting: 3 meters
TCSMCNAM3M002P	USB/RJ45 Connection cable

# Altivar™ machine ATV320 variable speed drives for simple and advanced machines



## ATV320 drives with compact control block

Supply voltage: 200...240 V 50/60 Hz (1) (2)

Phase		Single-phase			Three-phase				
Motor	Power indicated on plate in kW	0.75	1.5	2.2	0.75	1.5	4	5.5	7.5
	Power indicated on plate in HP	1	2	3	1	2	5	7.5	10
Altivar 320	Max. continuous output current (3)	4.8	8	11	4.8	8	17.5	27.5	33
Dimensions: W x H x D (mm) (4)		72 x 143 x 138		105 x 142 x 158	72 x 143 x 138	105 x 142 x 158	140 x 184 x 184	150 x 232 x 178	
Reference		ATV320 U07M2C	ATV320 U15M2C	ATV320 U22M2C	ATV320 U07M3C	ATV320 U15M3C	ATV320 U40M3C	ATV320 U55M3C	ATV320 U75M3C

Supply voltage: 380...500 V 50/60 Hz (1) (2)

Phase		Three-phase			
Motor	Power indicated on plate in kW	0.75	1.5	2.2	4
	Power indicated on plate in HP	1	2	3	5
Altivar 320	Max. continuous output current (3)	2.3	4.1	5.5	9.5
Dimensions: W x H x D (mm) (4)		105 x 143 x 158		140 x 184 x 158	
Reference		ATV320 U07N4C	ATV320 U15N4C	ATV320 U22N4C	ATV320 U40N4C



## ATV320 drives with book control block

Supply voltage: 380...500 V 50/60 Hz (1) (2)

Phase		Three-phase					
Motor	Power indicated on plate in kW	0.75	1.5	2.2	4	5.5	7.5
	Power indicated on plate in HP	1	2	3	5	7.5	10
Altivar 320	Max. continuous output current (3)	2.3	4.1	5.5	9.5	14.3	17
Dimensions: W x H x D (mm) (5)		45 x 325 x 245		60 x 325 x 245		150 x 232 x 232	
Reference		ATV320 U07N4B	ATV320 U15N4B	ATV320 U22N4B	ATV320 U40N4B	ATV320 D55N4B	ATV320 U75N4B

Note: Altivar Machine ATV320 variable speed drives are designed for 3-phase synchronous and asynchronous motors. ATV320 drives are supplied with braking chopper as standard. For braking resistor selection, please refer to the product catalog on our website [www.schneider-electric.com](http://www.schneider-electric.com).

(1) Altivar Machine ATV320 variable speed drives are compliant with Machinery Directive 2006/42/EC. Compliant safety functions are Safe Torque Off (STO), Safe Stop 1 (SS1), Safe Limited Speed (SLS), Safe Maximum Speed (SMS), and Guard Door Lock (GDL).

(2) Altivar Machine ATV320 variable speed drives are supplied with built-in EMC filters and comply with standard IEC/EN 61800-3. For more information, please refer to the product datasheet on our website [www.schneider-electric.com](http://www.schneider-electric.com).

(3) Altivar Machine ATV320 variable speed drives can supply transient output current of  $1.5 \times I_n$  for 60 s for every 10 min. cycle.

(4) For ATV320 drives with compact control block and ATV320 drives with book control > 5.5 kW, EMC plate (or UL type 1 kit) dimensions are not applicable.

(5) For ATV320 drives with book control  $\leq 4$  kW, EMC plate dimensions are applicable.

For more information, please refer to the "Variable speed drives - Altivar Machine ATV320" catalog on our website [www.schneider-electric.com](http://www.schneider-electric.com).

## Communication modules and accessories for ATV320 variable speed drives

### Accessories

Reference	Description
VW3A3616	Ethernet IP communication module
VW3A3600	Comm. module adaptor for ATV320...C
VW3A1111	Graphical display and keypad for ATV320 drives
VW3A1112	Display door mounting kit for ATV320 drives
TCSMCNAM3M002P	USB/RJ45 Connection cable

# Zelio™ & Legacy relays



## RSL slim interface relays

Type	Pre-assembled relays/sockets	
Contact	1 CO	
Current	6 A	
Connection	Screw connector	
LED display	With LED	
Complete product	24 VAC/VDC	<b>RSL1PVBU</b>
	110 VAC/VDC	<b>RSL1PVFU</b>

## RSB PCB interface relays

Contact	1 CO	2 CO	
Current	12 A	8 A	
Complete product (1)	24 VDC	<b>RSB1A120BD</b>	<b>RSB2A080BD</b>
	120 VAC	<b>RSB1A120F7</b>	<b>RSB2A080F7</b>
Screw connector socket	<b>RSZE1S35M</b>	<b>RSZE1S48M (2) (3)</b>	
Ejector clip for RSB relay	<b>RSZR215</b>		

(1) To order a relay complete with socket (sold in lots of 20), add the suffix S to one of the following voltage codes: JD, BD, B7, P7.

(2) RSZE1S48M is a two terminal socket each carrying 10 A.

(3) If RSZE1S48M socket terminals are linked, relay RSB1A160pp can be used up to 16 A. See "Wiring diagrams" on [www.schneider-electric.com](http://www.schneider-electric.com).

## RXG plug-in interface relays

Type	RXG relays without test button		RXG relays with test button		
Contact	1 CO	2 CO	1 CO	2 CO	
Current	10 A	5 A	10 A	5 A	
Connection	Flat pins (faston type)				
LED display	Without LED		With LED		
Complete product	24 VDC	<b>RXG15BD</b>	<b>RXG25BD</b>	<b>RXG12BD</b>	–
	120 VAC	<b>RXG15F7</b>	<b>RXG25F7</b>	<b>RXG12F7</b>	<b>RXG22F7</b>
Screw connector socket	<b>RGZE1S35M</b>	<b>RGZE1S48M</b>	<b>RGZE1S35M</b>	<b>RGZE1S48M</b>	
Diode module 24–60 VDC for RXG relay	<b>RZM031BN</b>				
Diode module 6–24 VDC for RXG relay	<b>RZM031RB</b>				



# Zelio™ & Legacy relays



RXM miniature “ice cube” relays						
Type		RXM relays with LED and lockable test button				
Contact		2 CO	3 CO	4 CO		
Current		12 A	10 A	6 A		
Connection		Flat pins (faston type)				
LED display		With LED		With lockable test button	With LED and lockable test button	With LED
Complete product	24 VDC	RXM2AB2BD	–	–	RXM4AB2BD	
	120 VAC	RXM2AB2F7	RXM3AB2F7	RXM4AB1F7	RXM4AB2F7	RXM4AB3F7 no test button
Screw clamp socket (1)		RXZE2M114	–	–	RXZE2M114	–
Screw connector socket (2)		RXZE2M114M	–	–	RXZE2M114M	–
Screw connector socket (2)		RXZE2S108M	RXZE2S111M	–	RXZE2S114M	–
RC circuit for RXZ sockets		RXM041FU7				
Metal clip		RXZ400				
Bus jumper		RXZS2				

(1) With mixed contacts (2) With separate contacts

792 miniature “ice cube” relays						
Type						
Contact		2 CO	4 CO	2 CO	4 CO	4 CO
Current		12 A	6 A	12 A	6 A	3mA min.
Connection		Flat pins (faston type)				
Feature		Clear cover (no features)		With LED & lockable test button		Clear cover (no features)
Complete product	24 VAC	792XBXC24A	–	–	–	–
	120 VAC	792XBXC120A	792XDXC120A	792XBXM4L120A	792DXM4L120A	792XDX3C120A
	240 VAC	792XBXC240A	–	–	–	–
	24 VDC	792XBXC24D	792XDXC24D	792XBXM4L24D	792DXM4L24D	792XDX3C24D
Screw clamp socket		70782D141				
Screw terminal socket		704611				
Metal clip		16782SC1				
Bus jumper		16782CBJ1				

# Zelio™ & Legacy relays



## RPM plug-in relays (15 A)

Type	RPM relays with test button			
Contact	1 CO	2 CO	4 CO	
Current	15 A			
Connection	Flat pins (faston type)			
LED display	With LED			
Complete product	24 VDC	RPM12BD	RPM22BD	RPM42BD
	24 VAC	–	RPM22B7	–
	120 VAC	RPM12F7	RPM22F7	RPM42F7
Screw connector socket	RPZF1	RPZF2	RPZF4	

## 781, 782, 783, 784 plug-in relays (15 A)

Contact	1 CO	2 CO	4 CO	1 CO	2 CO	4 CO	
Current	15 A			15 A			
Connection	Flat pins (faston type)						
Feature	Clear cover (no features)			With LED & lockable test button			
Complete product	24 VAC	781XAXRC24A	782XBXC24A	782DXC24A	781XAXRM4L24A	782XBXM4L24A	782DXM4L24A
	120 VAC	781XAXRC120A	782XBXC120A	782DXC120A	–	782XBXM4L120A	782DXM4L120A
	240 VAC	–	782XBXC240A	782DXC240A	–	782XBXM4L240A	782DXM4L240A
	12 VDC	–	–	–	–	782XBXM4L12D	–
	24 VDC	781XAXRC24D	782XBXC24D	782DXC24D	781XAXRM4L24D	782XBXM4L24D	782DXM4L24D
Screw clamp socket	70781D5R1A	70782D81A	70784D141	70781D5R1A	70782D81A	70784D141	
Screw terminal socket	704591			704591			



## RUM universal relays

Contact	2 CO	3 CO	
Current	10 A		
Connection	Cylindrical		
LED display	With LED & lockable test button		
Complete product	24 VDC	RUMC22BD	RUMC32BD
	120 VAC	RUMC22F7	RUMC32F7
Screw connector socket	Mixed contact terminal arrangement	RUZC2M	RUZC3M

# Zelio™ & Legacy relays



## 750 universal relays

Contact	2 CO	3 CO	2 CO	3 CO
Current	10 A			
Connection	Cylindrical / octal PINs			
Feature	Clear cover (no features)		With LED & lockable test button	
Complete product	24 VAC	750XBXRC24A	–	–
	120 VAC	750XBXRC120A	750XCXRC120A	750XBXRM4L120A
	240 VAC	750XBXRC240A	–	–
	12 VDC	750XBXRC12D	–	–
	24 VDC	750XBXRC24D	750XCXRC24D	750XBXRM4L24D
Screw terminal socket	704641	704651	704641	704651



## RPF power relays

Contact	2 NO	
Current	30 A (1)	
Complete product	120 VAC	RPF2AF7
	230 VAC	RPF2AP7

## 92 power relays

Contact	2 NO	2 CO	
Current	30 A (1)	NO: 30 A, NC:3 A (1)	
Connection	Flat pins (faston type)		
Complete product	24 VAC	92S7A22D24	92S11A22D24
	120 VAC	92S7A22D120	92S11A22D120
	24 VDC	–	92S11D22D24

(1) 30 A when mounted with 13 mm (0.51 in.) gap between two relays and 25 A when mounted side by side without a gap.



## 725 power relays

Contact	1 NO	2 NO	
Current	30 A	25 A	
Connection	Screw terminals		
Complete product	120 VAC	725AXXSC3ML120A	725BXXSC3ML120A
	240 VAC	725AXXSC3ML240A	725BXXSC3ML240A
	24 VDC	725AXXSC3ML24D	725BXXSC3ML24D

# Zelio™ & Legacy relays



820 timers					
Input Voltage	Functions	Timing Range	Contact Configuration	Rated Current	Standard Part Number
12–240 VAC/VDC	Multifunction (10 available functions)	10 ms to 10 days	1 CO	15 A	821TD10HUNI
			2 CO	15 A	822TD10HUNI



8501RS31 miniature C1D2 relays		
Contact	4 CO	
Current	5 A	
Connection	Flat pins (faston type)	
Complete product	120 VAC	8501RS34V20
	24 VDC	8501RSD34V53
Screw clamp socket	RXZE2M114	
Screw connector socket	RXZE2S114M	
Screw clamp socket	70782D141	
Screw terminal socket	704611	



750H octal C1D2 relays			
Contact	2 CO	3 CO	
Current	10 A		
Connection	Cylindrical / octal PINs		
Complete Product	120 VAC	750XBXH120A	750XCXH120A
	24 VDC	750XBXH24D	750XCXH24D
Screw terminal socket	704641	704651	

# Zelio™ & Legacy relays



<b>861H solid state C1D2 relays</b>		
<b>Input Characteristics</b>		
<b>Input Voltage Range</b>	3.5–32 VDC	90–280 VAC
<b>Must Release Voltage</b>	1 VDC	10 VAC
<b>Nominal Input Impedance</b>	Current regulator	16–25 kΩ
<b>Typical Input Current at 5 VDC</b>	12 mA	12 mA
<b>Reverse Polarity Protection</b>	Yes	N/A
<b>Output Characteristics</b>		
<b>Switching Device</b>	MOSFET	SCR
<b>Switching Type</b>	DC Switching	AC Zero Cross; AC Random
<b>Contact Configuration</b>	SPST-NO	SPST-NO, SPST-NC
<b>Output Voltage Range</b>	3–50 VDC; 3–150 VDC	24–480 VAC; 48–480 VAC; 48–600 VAC
<b>Configuration</b>	1 NO	1 NO
<b>Current</b>	8 A	10 A
<b>Connection</b>	Screw terminals	
<b>Complete Product</b>	<b>861HSSR208DD</b>	<b>861HSSR210AC1</b>

# Relay selection chart

Reference Number	Relay Category	Contact Form						Switching Current										
		1NO (SPST-NO)	1CO (SPDT)	2NO (DPST-NO)	2CO (DPDT)	3CO (3PDT)	4CO (4PDT)	<3 A	5 A	6 A	8 A	10 A	12 A	15 A	25 A (NO) 3 A (NC)	25 A	30 A	
RSL1PVBU	Slim Interface 6 mm		■							■								
RSL1PVFU				■							■							
RSB1A120BD	PCB Interface		■									■						
RSB1A120F7			■									■						
RSB2A080BD						■					■							
RSB2A080F7					■					■								
RXG15BD	Plug-In Interface		■									■						
RXG15F7			■									■						
RXG12BD			■									■						
RXG12F7			■									■						
RXB25BD						■				■								
RXG25F7						■				■								
RXG22F7					■				■									
RXM2A2BD	Miniature Ice Cube				■							■						
RXM2A2F7					■							■						
RXM3AB2F7							■					■						
RXM4AB1F7								■				■						
RXM4AB2BD								■				■						
RXM4AB2F7								■				■						
RXM4AB2BD								■				■						
RXM4AB2F7								■				■						
RXM4AB3F7								■				■						
792BXC24A						■							■					
792BXC120A						■							■					
792BXC240A						■							■					
792BXC24D						■							■					
792DXC120A								■			■							
792DXC24D								■			■							
792BXM4L120A						■							■					
792BXM4L24D						■							■					
792DXM4L120A								■			■							
792DXM4L24D								■			■							
792DX3C120A								■	■									
792DX3C24D							■	■										
RPM12BD	General Purpose Plug-In		■											■				
RPM12F7			■												■			
RPM22BD						■									■			
RPM22B7						■									■			
RPM42BD								■							■			
RPM42F7								■							■			
781XAXRC24A				■											■			
781XAXRC120A				■											■			
781XAXRC24D				■											■			
782BXC24A						■									■			
782BXC120A						■									■			
782BXC240A						■									■			
782BXC24D						■									■			
784DXC24A								■							■			
784DXC120A								■							■			
784DXC240A								■							■			
784DXC24D								■							■			
781XAXRM4L24A				■											■			
781XAXRM4L24D				■											■			
782BXM4L24A						■									■			
782BXM4L120A						■									■			
782BXM4L240A						■									■			
782BXM4L12D						■									■			
782BXM4L24D						■									■			
784DXM4L24A								■							■			
784DXM4L120A								■							■			
784DXM4L240A								■							■			
784DXM4L24D								■							■			

# Relay selection chart

Reference Number	Relay Category	Coil/Input Voltage										Features				Timing Features	
		3.5-32 VDC	12 VDC	12-240 VAC/VDC	24 VAC VDC	24 VAC	24 VDC	90-280 VAC	110 VAC VDC	120 VAC	240 VAC	None	LED	Test Button	Lockable Test Button	10 ms - 10 days	Multi-function
RSL1PVBU	Slim Interface 6 mm				■								■				
RSL1PVFU									■					■			
RSB1A120BD	PCB Interface						■						■				
RSB1A120F7										■			■				
RSB2A080BD							■						■				
RSB2A080F7											■			■			
RXG15BD	Plug-In Interface						■						■				
RXG15F7										■			■				
RXG12BD							■							■		■	
RXG12F7											■			■		■	
RXB25BD							■							■			
RXG25F7											■			■			
RXG22F7											■			■		■	
RXM2A2BD	Miniature Ice Cube						■							■		■	
RXM2A2F7											■			■		■	
RXM3AB2F7											■			■		■	
RXM4AB1F7											■			■		■	
RXM4AB2BD							■							■		■	
RXM4AB2F7											■			■		■	
RXM4AB2BD							■							■		■	
RXM4AB2F7											■			■		■	
RXM4AB3F7											■			■		■	
792XBXC24A						■								■			
792XBXC120A											■			■			
792XBXC240A												■		■			
792XBXC24D							■							■			
792XDXC120A											■			■			
792XDXC24D							■							■			
792XBXM4L120A											■			■		■	
792XBXM4L24D							■							■		■	
792XDXM4L120A											■			■		■	
792XDXM4L24D							■							■		■	
792XDX3C120A											■			■			
792XDX3C24D						■							■				
RPM12BD	General Purpose Plug-In						■							■		■	
RPM12F7											■			■		■	
RPM22BD							■							■		■	
RPM22B7						■								■		■	
RPM42BD							■							■		■	
RPM42F7											■			■		■	
781XAXRC24A						■								■			
781XAXRC120A											■			■			
781XAXRC24D							■							■			
782XBXC24A						■								■			
782XBXC120A											■			■			
782XBXC240A												■		■			
782XBXC24D							■							■			
784XDXC24A						■								■			
784XDXC120A											■			■			
784XDXC240A												■		■			
784XDXC24D							■							■		■	
781XAXRM4L24A						■								■		■	
781XAXRM4L24D							■							■		■	
782XBXM4L24A						■								■		■	
782XBXM4L120A											■			■		■	
782XBXM4L240A												■		■		■	
782XBXM4L12D			■											■		■	
782XBXM4L24D							■							■		■	
784XDXM4L24A						■								■		■	
784XDXM4L120A											■			■		■	
784XDXM4L240A												■		■		■	
784XDXM4L24D							■							■		■	

# Relay selection chart

Reference Number	Relay Category	Contact Form						Switching Current										
		1NO (SPST-NO)	1CO (SPDT)	2NO (DPST-NO)	2CO (DPDT)	3CO (3PDT)	4CO (4PDT)	<3 A	5 A	6 A	8 A	10 A	12 A	15 A	25 A (NO) 3 A (NC)	25 A	30 A	
RUMC22BD	Universal Octal PIN				■							■						
RUMC22F7					■							■						
RUMC32BD							■					■						
RUMC32F7							■					■						
750XBXRC24A						■						■						
750XBXRC120A						■						■						
750XBXRC240A						■						■						
750XBXRC12D						■						■						
750XBXRC24D						■						■						
750XCXRC120A							■					■						
750XCXRC24D							■					■						
750XBXRM4L120A						■						■						
750XBXRM4L24D						■						■						
750XCXRM4L120A							■					■						
750XCXRM4L24D							■					■						
RPF2AF7	Power			■												■		
RPF2AP7				■												■		
92S7A22D24				■												■		
92S7A22D120				■												■		
92S11A22D24						■									■			
92S11A22D120						■									■			
92S11D22D24						■									■			
725AXXSC3ML120A			■														■	
725AXXSC3ML240A			■														■	
725AXXSC3ML24D			■														■	
725BXXSC3ML120A				■													■	
725BXXSC3ML240A				■													■	
725BXXSC3ML24D				■													■	
8501RS34V20	Miniature C1D2								■									
8501RSD34V53									■									
750BXXH120A	Octal PIN C1D2											■						
750BXXH24D												■						
750XCXH120A												■						
750XCXH24D												■						
861HSSR208DD	Solid State C1D2										■							
861HSSR210AC1												■						
821TD10HUNI	Timer		■												■			
822TD10HUNI						■									■			



# Relay selection chart

Reference Number	Relay Category	Coil/Input Voltage										Features				Timing Features		
		3.5-32 VDC	12 VDC	12-240 VAC/VDC	24 VAC VDC	24 VAC	24 VDC	90-280 VAC	110 VAC VDC	120 VAC	240 VAC	None	LED	Test Button	Lockable Test Button	10 ms - 10 days	Multi-function	
RUMC22BD	Universal Octal PIN						■						■		■			
RUMC22F7											■			■		■		
RUMC32BD								■						■		■		
RUMC32F7											■			■		■		
750XBXR24A							■							■				
750XBXR120A											■			■				
750XBXR240A												■		■				
750XBXR12D			■											■				
750XBXR24D						■								■				
750XCXR120A											■			■				
750XCXR24D								■						■				
750XBXRM4L120A											■			■		■		
750XBXRM4L24D								■						■		■		
750XCXRM4L120A											■			■		■		
750XCXRM4L24D								■						■		■		
RPF2AF7		Power												■				
RPF2AP7														■				
92S7A22D24							■							■				
92S7A22D120											■			■				
92S11A22D24							■							■				
92S11A22D120											■			■				
92S11D22D24								■						■				
725AXXSC3ML120A											■			■	■			
725AXXSC3ML240A												■		■	■			
725AXXSC3ML24D								■						■	■			
725BXXSC3ML120A											■			■	■			
725BXXSC3ML240A												■		■	■			
725BXXSC3ML24D							■						■	■				
8501RS34V20	Miniature C1D2									■								
8501RSD34V53						■												
750XBXH120A	Octal PIN C1D2									■								
750XBXH24D							■											
750XCXH120A											■							
750XCXH24D							■											
861HSSR208DD	Solid State C1D2	■												■				
861HSSR210AC1									■						■			
821TD10HUNI	Timer				■									■	■		■	■
822TD10HUNI						■									■	■		■

# Relay selection chart

Reference Number	Product Category	Relay Compatibility															
		RSB1***	RSB***	RXG1***	RXG2***	RXM2*** 792XB*	RXM3***	RXM4*** 792XD*	RPM1*** 781***	RPM*** 782***	RPM4*** 784***	RUMC2*** 750XB*	RUMC3*** 750XC*	8501RS34* 8501RSD34*	750XBXH	750XCXH	
RSZE1S35M	Socket	■															
RSZE1S48M			■														
RGZE1S35M				■													
RGZE1S48M					■												
RXZE2M114						■		■							■		
RXZE2S114M								■							■		
RXZE2S108M						■											
RXZE2S111M							■										
70782D141						■		■							■		
704611						■		■							■		
RPZF1									■								
RPZF2										■							
RPZF4											■						
70781D5R1A									■								
70782D81A										■							
704591										■							
70750E81																■	
70750DL81																■	
70750DL111																	■
70784D141											■						
RUZC2M											■				■		
RUZC3M												■				■	
704641											■				■		
704651												■				■	

Reference Number	Product Category	Socket / Relay Compatibility															
		RSZE***	RGZE***	RXZE***	RPZF1/2	70781***	70782***	RPF***	861H***	821***	822***						
RZM031BN	Accessories	■	■														
RZM031RB		■	■														
RXM041FU7				■	■	■	■										
RXZ400				■													
RXZS2				■													
16782SC1				■													
16782CBJ1				■													
16700DIN			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
16DCLIP1			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

# Phaseo™ power supplies



## Regulated switch mode power supplies 7 to 144 W for mounting on rail

Output voltage		24 V $\overline{\text{DC}}$	
Reference (according to output current)	1.2 A	ABL8MEM24012	–
	3 A	–	ABL8REM24030
	5 A	–	ABL8REM24050

# Zelio™ smart relays

Zelio Logic smart relays are designed for use in small automated systems in both industrial and commercial applications. Their compact size and ease of setup make them a competitive alternative to solutions.

Simple programming meets the requirements of automation specialists and the needs of electricians. Programming can be performed using a PC with Zelio Soft 2 software.

When using a PC, programming can be performed either in ladder language or in function block diagram (FBD) language. This software is available for Free download at [https://www.schneider-electric.com/en/download/document/ZelioSoft2\\_V5\\_1](https://www.schneider-electric.com/en/download/document/ZelioSoft2_V5_1)

Other Zelio Smart relays and associated accessories and options are available upon request. Additional information is available at [www.schneider-electric.com/en/product-range/531-smart-relay---zelio-logic-sr2-sr3](http://www.schneider-electric.com/en/product-range/531-smart-relay---zelio-logic-sr2-sr3)

## Zelio Smart Relays - Not expandable



Catalog Number	Description
SR2A101FU	Compact smart relay Zelio Logic - 10 I O - 100..240 V AC - no clock - display
SR2B121FU	Compact smart relay Zelio Logic - 12 I O - 100..240 V AC - clock - display
SR2B201FU	Compact smart relay Zelio Logic - 20 I O - 100..240 V AC - clock - display

## Expandable Zelio Smart Relay

Expandable by adding up to 1 expansion module below



Catalog Number	Description
SR3B101FU	Modular smart relay Zelio Logic - 10 I O - 100..240 V AC - clock - display
SR3B261FU	Modular smart relay Zelio Logic - 26 I O - 100..240 V AC - clock - display

## Zelio Smart Expansions

Up to 1 can be added to the above modular relays



Catalog Number	Description
SR3XT101FU	Discrete I/O extension module - 10 I O - 100..240 V AC - for Zelio Logic

## Cable for PC to Relay program download - 1 needed per customer



Catalog Number	Description
SR2CBL01	SUB-D 9-pin PC connecting cable - for smart relay Zelio Logic - 3 m

*NOTE: All Zelio Smart Relays are programmable using the free download software below. Also, you must have S22CBL01 cable for loading the program from the computer into the relay.*

[www.schneider-electric.com/en/download/document/ZelioSoft2\\_V5\\_1](https://www.schneider-electric.com/en/download/document/ZelioSoft2_V5_1)

More information:

[www.schneider-electric.com/en/product-range-presentation/531-smart-relay---zelio-logic-sr2-sr3/?parent-category-id=3900&parent-subcategory-id=3920&filter=business-1-industrial-automation-and-control#abs-top](http://www.schneider-electric.com/en/product-range-presentation/531-smart-relay---zelio-logic-sr2-sr3/?parent-category-id=3900&parent-subcategory-id=3920&filter=business-1-industrial-automation-and-control#abs-top)

Complete Catalog:

[http://download.schneider-electric.com/files?p\\_enDocType=Catalog&p\\_File\\_Name=DIA3ED2111202EN.pdf&p\\_Doc\\_Ref=DIA3ED2111202EN](http://download.schneider-electric.com/files?p_enDocType=Catalog&p_File_Name=DIA3ED2111202EN.pdf&p_Doc_Ref=DIA3ED2111202EN)

# Modicon™ M221 PLC

## Modicon M221 PLC: the best performance for its size!

The Modicon M221 logic controller offers best-in-class performance. Everything you need is embedded.

- SD card and USB port
- 2 analog inputs and a broad choice of I/Os
- Run/stop switch and cartridge extension
- Ethernet and serial line ports
- High degree of flexibility lets you add additional modules easily
- Extensive line of analog and digital modules
- Intuitive machine programming with EcoStruxure Machine Expert - Basic software
- Simple navigation delivers a more efficient engineering process
- All programming, visualization, and commissioning are handled in just one intuitive tool
- Available as a free download
- No training required

The Modicon M221 logic controller is a EcoStruxure™ Machine controller. EcoStruxure Machine from Schneider Electric is an intuitive solution for machine automation with all the features and functions you need to build machines that will improve your bottom line. From design and development, to commissioning and maintenance, EcoStruxure Machine is a complete machine building solution with benefits all through the machine life cycle.

SoMachine™ Software Basic Download

[www.schneider-electric.com/en/download/document/SoMachineBasicV1.6SP2/](http://www.schneider-electric.com/en/download/document/SoMachineBasicV1.6SP2/)

### Modicon M221 Programmable Logic Controllers (PLC)



Catalog Number	Description
TM221ME16R	Controller M221 16 IO with relay outputs and Ethernet (24VDC control voltage)
TM221CE24R	Controller M221 24 IO with relay outputs and Ethernet (100-240 VAC control voltage)

### Modicon TM3 Expansion Modules to increase input/output capacity



Up to 7 modules can be added to a single Modicon M221 PLC









Catalog Number	Description
TM3DQ16R	Module TM3 - 16 outputs relays
TM3DI16	Module TM3 - 16 inputs
TM3DQ8R	Module TM3 - 8 outputs relays
TM3AI4	Module TM3 - 8 analog inputs
TM3AQ4	Module TM3 - 4 analog outputs

Webpage: [www.schneider-electric.com/en/product-range/62128-logic-controller---modicon-m221/](http://www.schneider-electric.com/en/product-range/62128-logic-controller---modicon-m221/)  
Catalog: [www.schneider-electric.com/en/download/document/DIA3ED2140106EN/](http://www.schneider-electric.com/en/download/document/DIA3ED2140106EN/)

# Magelis™ HMI

Product Image	Product Family	Catalog #	Description	Display Size	Mounting Style	Programming Software	Stock Qty
	STU	HMISTU655	Touch panel screen 3.5" Color	3.5"	22 mm cut-out	Vijeo™ Designer	3
		HMISTU855	Touch panel screen 5.7" Color	5.7"	22 mm cut-out	Vijeo Designer	3
	STO	HMISTO715	4.3" wide screen touch panel, RS-232/485 RJ45	4.3"	Panel cut-out	Vijeo XD	1

# Ethernet switches

	Reference Number	Description	Ethernet Switch Type		
			Unmanaged	Standard	Premium
	TCSESSU083FN0	<b>Standard</b> Unmanaged Switch - 8 TX (copper cable) ports using RJ 45 connectors that supports 10/100 Mbit/s communications. No Premium configuration capabilities.	■	■	
	TCSESPU083FN0	<b>Premium</b> Unmanaged Switch – 8TX (copper cable) ports using RJ 45 connectors that supports 10/100 Mbit/s communications	■		■
	TCSESPU053F1CU0	<b>Premium</b> Unmanaged Switch – 4 TX (copper cable) ports using RJ 45 connectors that supports 10/100 Mbit/s communications 1 x 100BASE-FX MM fiber optic port with an SC connector.	■		■
	TCSESPU093F2CU0	<b>Premium</b> Unmanaged Switch – 7 TX (copper cable) ports using RJ 45 connectors that supports 10/100 Mbit/s communications 2 x 100BASE-FX MM fiber optic port with an SC connector.	■		■
	TCSESPU053F1CS0	<b>Premium</b> Unmanaged Switch – 4 TX (copper cable) ports using RJ 45 connectors that supports 10/100 Mbit/s communications 1 x 100BASE-FX SM fiber optic port with an SC connector.	■		■
	TCSESPU093F2CS0	<b>Premium</b> Unmanaged Switch – 7 TX (copper cable) ports using RJ 45 connectors that supports 10/100 Mbit/s communications 2 x 100BASE-FX SM fiber optic port with an SC connector.	■		■

*NOTE: Premium Unmanaged include the following features:*

*Global settings: Power supply, Unit alarm, Aging time, QoS 802.1p mapping, QoS DSCP, mapping; QoS Trust Mode*

*Port settings: Flow control, Port admin state, Broadcast storm protection/threshold, multicast storm protection/threshold, port based priority, link alarm*

*TX port settings: auto-negotiation, speed, duplex mode, auto-crossing, MDI state, energy efficient Ethernet*

# Spacial™ CRN, Spacial steel S3DC, and Spacial stainless-steel S3X (304L) wall-mounting enclosures



## Spacial™ CRN, Spacial steel S3DC, and Spacial stainless-steel S3X (304L) wall-mounting enclosures (1) multi-purpose steel wall-mounting enclosures (2)

Degree of protection: IP66. Mechanical protection: IK10P. Finish: painted with textured epoxy-polyester resin in RAL7035 light gray

Product type	Enclosures						Mounting plates					
	Height		Width		Depth		Spacial CRN best value	Spacial S3DC made for US	Spacial stainless-steel S3X (304L)	Plain	White	Micro-perforated
Description	mm	(in.)	mm	(in.)	mm	(in.)						
Reference according to dimensions (H x W x D) in mm (in.)	200	(7.9)	200	(7.9)	–	–	–	–	–	NSYMM22	–	–
	250	(9.8)	200	(7.9)	150	(5.9)	NSYCRN252150	–	–	NSYMM2520	–	–
	300	(11.8)	200	(7.9)	150	(5.9)	–	NSYS3DC3215	NSYS3X3215	NSYMM32	NSYMM32WH	–
	300	(11.8)	250	(9.8)	150	(5.9)	NSYCRN325150	–	NSYS3X302515	NSYMM3025	–	–
	300	(11.8)	250	(9.8)	200	(7.9)	NSYCRN325200	–	–	NSYMM3025	–	–
	300	(11.8)	300	(11.8)	150	(5.9)	NSYCRN33150	NSYS3DC3315	SYS3X3315	NSYMM33	NSYMM33WH	–
	300	(11.8)	300	(11.8)	200	(7.9)	NSYCRN33200	NSYS3DC3320	–	NSYMM33	NSYMM33WH	–
	300	(11.8)	400	(15.6)	200	(7.9)	–	NSYS3DC3420	–	–	–	–
	400	(15.6)	300	(11.8)	150	(5.9)	NSYCRN43150	NSYS3DC4315	–	NSYMM43	NSYMM43WH	–
	400	(15.6)	300	(11.8)	200	(7.9)	NSYCRN43200	NSYS3DC4320	NSYS3X4320	NSYMM43	NSYMM43WH	–
	400	(15.6)	400	(15.6)	200	(7.9)	NSYCRN44200	NSYS3DC4420	NSYS3X4420	NSYMM44	NSYMM44WH	–
	500	(19.7)	400	(15.6)	150	(5.9)	NSYCRN54150	–	–	NSYMM54	NSYMM54WH	–
	500	(19.7)	400	(15.6)	200	(7.9)	NSYCRN54200	NSYS3DC5420	NSYS3X5420	NSYMM54	NSYMM54WH	–
	500	(19.7)	400	(15.6)	250	(9.8)	NSYCRN54250	NSYS3DC5425	–	NSYMM54	NSYMM54WH	–
	500	(19.7)	500	(19.7)	200	(7.9)	–	NSYS3DC5520	–	NSYMM55	NSYMM55WH	NSYMF55
	500	(19.7)	500	(19.7)	250	(9.8)	NSYCRN55250	NSYS3DC5525	–	NSYMM55	NSYMM55WH	NSYMF55
	600	(23.6)	400	(15.6)	150	(5.9)	–	–	–	NSYMM64	NSYMM64WH	–
	600	(23.6)	400	(15.6)	200	(7.9)	NSYCRN64200	NSYS3DC6420	NSYS3X6420	NSYMM64	NSYMM64WH	–
	600	(23.6)	400	(15.6)	250	(9.8)	–	NSYS3DC6425	–	NSYMM64	NSYMM64WH	–
	600	(23.6)	500	(19.7)	150	(5.9)	–	–	–	NSYMM65	–	–
	600	(23.6)	500	(19.7)	200	(7.9)	NSYCRN65200	–	–	NSYMM65	–	–
	600	(23.6)	500	(19.7)	250	(9.8)	NSYCRN65250	–	–	NSYMM65	–	–
	600	(23.6)	600	(23.6)	200	(7.9)	–	NSYS3DC6620	–	NSYMM66	NSYMM66WH	–
	600	(23.6)	600	(23.6)	250	(9.8)	–	NSYS3DC6625	NSYS3X6625	NSYMM66	NSYMM66WH	–
	600	(23.6)	600	(23.6)	300	(11.8)	NSYCRN66300	NSYS3DC6630	–	NSYMM66	NSYMM66WH	–
	600	(23.6)	600	(23.6)	400	(15.6)	–	–	–	NSYMM66	NSYMM66WH	–
	700	(27.6)	500	(19.7)	200	(7.9)	NSYCRN75200	–	–	NSYMM75	NSYMM75WH	–
	700	(27.6)	500	(19.7)	250	(9.8)	NSYCRN75250	NSYS3DC7525	NSYS3X7525	NSYMM75	NSYMM75WH	–
	800	(31.5)	600	(23.6)	200	(7.9)	NSYCRN86200	NSYS3DC8620	–	NSYMM86	NSYMM86WH	–
	800	(31.5)	600	(23.6)	250	(9.8)	NSYCRN86250	NSYS3DC8625	NSYS3X8625	NSYMM86	NSYMM86WH	–
	800	(31.5)	600	(23.6)	300	(11.8)	NSYCRN86300	NSYS3DC8630	–	NSYMM86	NSYMM86WH	–
	800	(31.5)	600	(23.6)	400	(15.6)	–	NSYS3DC8640	–	NSYMM86	NSYMM86WH	–
	800	(31.5)	800	(31.5)	200	(7.9)	–	–	–	NSYMM88	–	–
	800	(31.5)	800	(31.5)	250	(9.8)	–	NSYS3DC8825	–	NSYMM88	–	–
	800	(31.5)	800	(31.5)	300	(11.8)	NSYCRN88300	NSYS3DC8830	–	NSYMM88	–	–
	1000	(39.4)	600	(23.6)	250	(9.8)	–	NSYS3DC10625	–	NSYMM106	NSYMM106WH	NSYMF106
	1000	(39.4)	600	(23.6)	300	(11.8)	NSYCRN106300	–	–	NSYMM106	NSYMM106WH	NSYMF106
	1000	(39.4)	600	(23.6)	400	(15.6)	–	–	–	NSYMM106	NSYMM106WH	NSYMF106
	1000	(39.4)	800	(31.5)	250	(9.8)	–	NSYS3DC10825	–	NSYMM108	NSYMM108WH	–
	1000	(39.4)	800	(31.5)	300	(11.8)	NSYCRN108300	NSYS3DC10830	NSYS3X10830	NSYMM108	NSYMM108WH	–
1000	(39.4)	800	(31.5)	400	(15.6)	–	NSYS3DC10840	–	NSYMM108	NSYMM108WH	–	
1000	(39.4)	1000	(39.4)	300	(11.8)	–	NSYS3DC101030	–	NSYMM1010	–	–	
1200	(47.2)	800	(31.5)	–	–	–	–	–	NSYMM128	–	NSYMF128	
1200	(47.2)	1000	(39.4)	–	–	–	–	–	NSYMM1210	–	–	

(1) Multi-purpose enclosures are empty enclosures meeting the majority of application requirements. The Spacial S3DC offer also comprises applicative enclosures for terminals, EMC (electromagnetic compatibility), VDI (Voice/Data/Image), HMI (human-machine interface), modular distribution, outdoor installation, and hazardous environments (ATEX, seismic, or nuclear). In order to check the availability of this range in your country, please contact your local representative.

(2) For other versions without mounting plate, with glazed door (IK0P8) or double door (IP55), see the Enclosures catalog on our website [www.schneider-electric.com/enclosures](http://www.schneider-electric.com/enclosures). In order to check the availability of this range in your country, please contact your local representative.



# Accessories for Spacial™ CRN, steel S3DC, and stainless-steel S3X (304L) wall-mounting enclosures

Accessories for Spacial CRN, steel S3DC, and stainless-steel S3X (304L) wall-mounting enclosures	
Description	Reference
4 Steel wall-mounting brackets for S3DC	NSYAEFPFSC
Lock with padlock for spacial CRN	NSYCBCCRN
4 Wall-fixing brackets for CRN	NSYPFCR
4 Adjustable step slides 300 mm D	NSYSDCR300
Din rail - 2000 mm galvanized steel - Type A - not perforated	NSYSDR200
Din rail - 2000 mm galvanized steel - Type B - not perforated	NSYSDR200B
Din rail - 2000 mm galvanized steel - Type B - perforated	NSYSDR200BD
4 Stainless-steel wall-mounting brackets	NSYPFCX
Padlockable double lock S3DC	NSYAEDLPADS3D
3 mm Double-bar lock for S3DC	NSYAEDLS3DRL
3 mm Double-bar lock for 405 key used with S3HF	NSYCLL405CRN
Plastic key for 3 mm double-bar lock	NSYDBP
Reinforcement kit mounting plate 1600 mm W	NSYMPRK16



## Spacial floor-standing steel enclosures

Galvanized monoblock enclosures with mounting plate									
Reference according to dimensions (H x W x D) in mm (in.)	Height		Width		Depth		Enclosure type	Reference	
	mm	(in.)	mm	(in.)	mm	(in.)			
		1400	(55.1)	800	(31.5)	400	(15.6)	1 Door	NSYSM14840P
		1600	(63.0)	800	(31.5)	400	(15.6)	1 Door	NSYSM16840P
		1800	(70.9)	1000	(39.4)	400	(15.6)	1 Door	NSYSM181040P
		1800	(70.9)	800	(31.5)	500	(19.7)	1 Door	NSYSM18850P
		2000	(78.7)	800	(31.5)	500	(19.7)	1 Door	NSYSM20850P
		1600	(63.0)	1000	(39.4)	400	(15.6)	2 Door	NSYSM1610402DP
		1800	(70.9)	1000	(39.4)	400	(15.6)	2 Door	NSYSM1810402DP
		1800	(70.9)	1000	(39.4)	500	(19.7)	2 Door	NSYSM1810502DP
		1800	(70.9)	1200	(47.2)	400	(15.6)	2 Door	NSYSM1812402DP
		1800	(70.9)	1200	(47.2)	500	(19.7)	2 Door	NSYSM1812502DP
		1800	(70.9)	1600	(63.0)	500	(19.7)	2 Door	NSYSM1816502DP
	2000	(78.7)	1000	(39.4)	500	(19.7)	2 Door	NSYSM2010502DP	

## Accessories for Spacial floor-standing steel enclosures

Description	Reference
2 Standard side panels 2000 mm x 600 mm	NSY2SP206
4 Eye bolts M12 SM	NSYSMEB
Fixing supp mounting plate back position	NSYSMPFB
Standard coupling kit SF	NSYSFBK
4 Eye bolts M12 SM	NSYSFEB
Front and back plinth 100 mm x 1000 mm	NSYSPF10100
Front and back plinth 100 mm x 600 mm	NSYSPF6100
Front and back plinth 100 mm x 800 mm	NSYSPF8100
2 Plinth side panels 100 mm x 400 mm	NSYSPS4100
2 Plinth side panels 100 mm x 600 mm	NSYSPS6100
2 Plinth side panels 100 mm x 800 mm	NSYSPS8100
2 Universal rails 1 row 1800 mm	NSYSUCR40180
2 Universal rails 1 row 600 mm	NSYSUCR4060
20 Double profile DIN rail 2 m 1 mm thick	NSYDPR200T
A4 Plastic document pocket 234 mm x 234 mm x 40 mm for SF or SM	NSYDPA4

# Thalassa™ TBP industrial boxes and insulated enclosures



## Thalassa™ polyester industrial boxes and insulated enclosures

Product type							Industrial boxes	Mounting plates (Industrial boxes only)	Wall mount enclosures
Description	Height		Width		Depth		Degree of protection: IP65 Mechanical protection: IK09 Color: RAL7035 light gray		Degree of protection: IP65 Mechanical protection: IK10 (IK08 for transparent doors) Color: RAL7035 light gray
	mm	(in.)	mm	(in.)	mm	(in.)			
Reference according to dimensions (H x W x D) in mm (in.)	192	(7.6)	121	(4.8)	87	(3.4)	NSYTBP19128	–	–
	192	(7.6)	164	(6.5)	105	(4.1)	NSYTBP191610H	NSYAMP1916TB	–
	241	(9.5)	192	(7.6)	105	(4.1)	NSYTBP241910	NSYAMP2419TB	–
	241	(9.5)	192	(7.6)	105	(4.1)	NSYTBP241910T		–
	241	(9.5)	192	(7.6)	128	(5.0)	NSYTBP241912H		–
	291	(11.5)	241	(9.5)	168	(6.6)	NSYTBP292416H	NSYAMP2924TB	–
	341	(13.4)	291	(11.5)	128	(5.0)	NSYTBP342912	NSYAMP3429TB	–
	308	(12.1)	250	(9.8)	160	(6.3)	–	–	NSYPLM3025G
	430	(16.9)	330	(13.0)	200	(7.9)	–	–	NSYPLM43G
	530	(20.9)	430	(16.9)	200	(7.9)	–	–	NSYPLM54G
	647	(24.5)	436	(17.1)	250	(9.8)	–	–	NSYPLM64G
	747	(29.4)	536	(21.1)	300	(11.8)	–	–	NSYPLM75G
	847	(33.4)	636	(25.0)	300	(11.8)	–	–	NSYPLM86G
	1056	(41.6)	852	(33.5)	350	(13.8)	–	–	NSYPLM108G

## Accessories for Thalassa polyester industrial boxes and insulated enclosures

Description	Reference
2 x Hinges for cover HT 20 mm for TBS or TBP industrial boxes	NSYAEDH20TB
4 x External fixing lugs for TBS or TBP industrial boxes	NSYAEFTB
DIN 35x7, 5 rail for box 241 for TBS or TBP industrial boxes	NSYAMRD24357TB
DIN 35x7, 5 rail for box 341 for TBS or TBP industrial boxes	NSYAMRD34357TB
Valve for TBS or TBP industrial boxes	NSYCAG12LPH1
7035 WM pol PLM 847 mm H x 636 mm W x 300 mm D lock3p for wall mount polyester enclosures	NSYPLM86VG
Sliding support PLM75/86 for wall mount polyester enclosures	NSYDPLM300
Sliding support PLM108 for wall mount polyester enclosures	NSYDPLM350
7035 Polyester WM lugs for PLM3025 to PLM108 for wall mount polyester enclosures	NSYPFLMG
Inox WM lugs for PLM43 to 108 for wall mount polyester enclosures	NSYPFXPML

# ClimaSys™ ventilation and thermal management systems



## ClimaSys™ CV ventilation systems

Degree of protection: IP54. Color: RAL7035 light gray

Voltage (V)		115 AC		24 DC		115 V				24 V	48 DC
Fan flow rate (m³/h)	Free-flow rate with standard filter	38	79	58	80	165	300	560	850	300	79
	Flow rate with outlet grill(s)	27	65	39	57	–	–	–	–	–	59
		35	73	47	77	–	–	–	–	–	68
Reference	Fan with filter	NSYC VF38M115PF		NSYC VF38M24DPF		NSYC VF165M115PF	NSYC VF300M115PF	NSYC V560M115PF	NSYC VF850M115PF	NSYC VF300M24DPF	NSYC VF38M48DPF
	Outlet grill	NSYC AG92LPF	NSYC AG125LPF	NSYC AG92LPF	NSYC AG125LPF	–	–	–	–	–	NSYC AG125LPF

Note: For more detailed information on our products, see the Enclosures catalog on our website [www.schneider-electric.com/enclosures](http://www.schneider-electric.com/enclosures).



## ClimaSys CC thermostats

Type of control	Setting range	Reference
Mechanical control of a resistance heater or an alarm	0...+60 °C	NSYCCOTHC
	+32...+140 °F	NSYCCOTHCF
Mechanical control of a fan or an alarm	0...+60 °C	NSYCCOTHO
	+32...+140 °F	NSYCCOTHOF
Electronic thermostat	-40...+80 °C	NSYCCOTH120VID
Electronic hygrotherm	-40...+80 °C	NSYCCOHT120VID
Double thermostat	0...+60 °C	NSYCCOTH D
	+32...+140 °F	NSYCCOTHDF
Thermostat with inverse contact	+41...+140 °F	NSYCCOTHIF

## ClimaSys CR insulated resistance heaters, 2 poles

Power (W)	50	100	150	350–550	
Voltage (V)	110–250 V			120 V	230 V
Reference	NSYCR50WU2C	NSYCR100WU2C	NSYCR150WU2C	NSYCRP1W120VTVC	NSYCRP1W230VTVC

## ClimaSys CRS ultra thin resistance heaters

Power (W)	25		50	100	200
Voltage (V)	120 AC	240 AC	240 AC	240 AC	120 AC
Inrush current (A)	0.21	0.10	0.21	–	–
Height (mm)	130	130	200	280	400
Width (mm)	250	250	320	450	650
Depth (mm)	1.6	1.6	1.6	1.6	1.6
Reference	NSYCRS25W120V	NSYCRS25W240V	NSYCRS50W240V	NSYCRS100W240V	NSYCRS200W120V

## ClimaSys DT data loggers

Characteristics	DTH
Type of recorder	Temperature, humidity, and dew point recorder
Composition	1
Reference	NSYDTEF32TRH

Note: For more detailed information on our products, see the Enclosures catalog on our website [www.schneider-electric.com/enclosures](http://www.schneider-electric.com/enclosures).

# ClimaSys™ ventilation and thermal management systems



Characteristics		DTT
		<b>Temperature recorder</b>
Color		Translucid
Display Type		LCD display
Dimensions	Height	111 mm
	Width	39 mm
	Depth	26 mm
Operating temperature		-40 °C to 80 °C
Ingress protection rating		IP67 according to IEC 60529
Standard		EN 12830
Certification		CE
Fixing mode		Clip-on support
Connector type		USB
Data recording		32 K
Temperature	Setting	-40 °C to 80 °C
	Accuracy	±0.3 °C
	Resolution	0.03 °C
Humidity	Setting	–
	Accuracy	–
	Resolution	–
Battery	Type	Lithium CR2032 3 V
	Lifetime	Maximum 2 years
Composition		1

**Schneider Electric**

[www.schneider-electric.us](http://www.schneider-electric.us)

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