



SUPPLEMENTARY PROTECTORS

WMS Series Starts at **£16⁷⁵**



- 1, 2, 3 Pole Models
- 1 to 30 Amp Ranges
- 3 Different Trip Curves to Choose From
- CSA 22.2



WMS1C20SP, £16.75, shown smaller than actual size.



WMS2C20SP, £33.50, shown smaller than actual size.



WMS3C20SP, £48, shown smaller than actual size.

Offering maximum reliability and accuracy, the supplementary protectors fit various applications where a fuse may have been previously used. The advantage over fuses is that it is resettable and the device's status is easily and clearly identified by the position of the handle and the flag indicator. With easy mounting of the device on a 35 mm DIN rail it is now easier for the customer to select and apply this modular range, due to the smaller modular width of the device and accessories. The WMS supplementary protector is a dual-rated product for both AC and DC supplies, in accordance with UL 1077, CSA 22.2 and IEC 898 standards in accordance with the Low Voltage Directive. With this dual standard product, you can include it within your design, knowing that, in the vast majority of cases wherever the equipment is used, the product is in line with the local UL, CSA or IEC requirements. This is very important as the different areas of the world market draw closer together and the need for breakers that meet different standards is a common, everyday occurrence. It is to be applied in conjunction with a branch protector (if branch protection is required) and can be a replacement for similarly applied fuses.

Manufactured by Cutler-Hammer for OMEGA

In addition to this, you are able to select a device that provides maximum reliability and accuracy to fit their various applications (of which there are many) due to the availability of a wide range of current ratings from 0.5 to 60 amperes and three different overcurrent characteristic curves. With easy mounting of the device on a 35 mm DIN-rail and also the "Quick 3 Step" field mountable accessories, it is now easier to select and

apply this modular range. In addition, utilising the bus bar comb to connect multiple devices from a single power source, saves time as multiple wire connections are no longer required. Due to the smaller modular width of the device and accessories, it enables them to save space in their panel or equipment—which directly leads to cost savings!

IEC RATING

AMPERE RATING	CURVE	VOLTS AC	SHORT CIRCUIT CAPACITY	
			IEC 898, I _{CN}	IEC 947-2, I _{CU}
0.5 to 5	C, D	240/415	10,000	10,000
50 to 60	B, C, D	240/415	10,000	10,000

UL/CSA RATING

AMPERE RATING	NUMBER OF POLLS	CURVE	VOLTS AC	SHORT CIRCUIT CAPACITY (A)	
				UL 1077	CSA 235
6 to 60	1	B	120	10,000	10,000
0.5 to 60	1	C, D	120	10,000	10,000
6 to 60	2, 3, 4	B	240	10,000	10,000
0.5 to 60	2, 3, 4	C, D	240	10,000	10,000
6 to 60	1	B	277	6000	6000
0.5 to 60	1	C, D	277	6000	6000
6 to 60	2, 3, 4	B	480	5000	5000
0.5 to 60	2, 3, 4	C, D	480	5000	5000

DC RATING

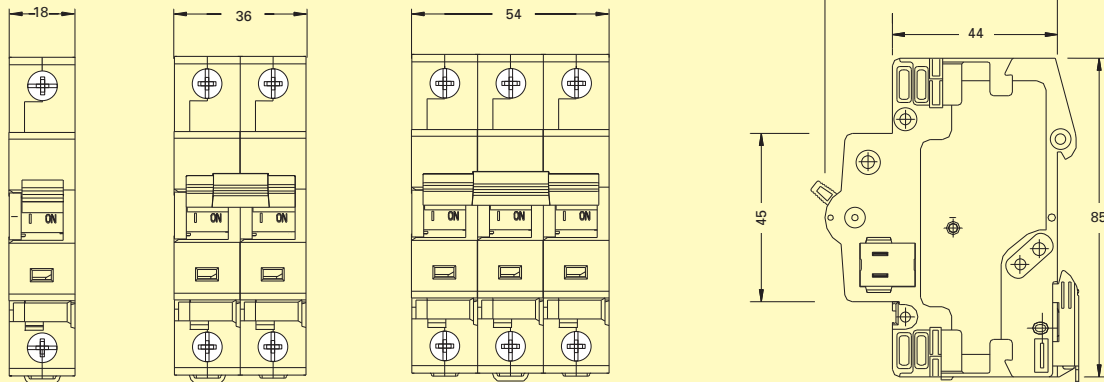
AMPERE RATING	NUMBER OF POLLS	CURVE	VOLTS DC	SHORT CIRCUIT CAPACITY (A)	
				UL 1077	CSA 235
0.5 to 63	1	B, C, D	65	10,000	10,000
0.5 to 63	2	B, C, D	130	10,000	10,000



CABLE SIZE AND TORQUE SETTING - WMS SERIES

AMPERE RATING	CABLE SIZE		TIGHTENING TORQUE	
	mm ²	AWG	Nm	Kg/cm
0.5 to 60	1 to 25	14 to 6	2.8	28.6

Dimensions: mm



Standards and Certifications

- UL recognised under UL 1077
- CSA 22.2
- IEC 898
- IEC 60947-2

Product Description

- Dual standard breaker: recognised by UL and CSA under UL 1077 and CSA 22.2
- Third-party approved by KEMA according to IEC 898
- Used to provide overcurrent protection where branch protection (for example UL 489 MCCB) is already provided or not required
- Installed as a component within or part of an appliance or a piece of electrical equipment
- Ideal replacement for fuses that are applied as a supplementary protector, i.e., in addition to branch protection (if required)
- 35 mm DIN-rail mountable, utilising metallic “extra strength” spring clip
- Light grey case with grey handle, that is marked “O” for OFF and “I” for ON
- UL file number E162396
- CSA file number LR105508-2

Application Description

Cutler-Hammer supplementary protectors are ideal for providing protection in a multitude of applications, including:

- Motor control circuits
- Control power transformers
- Relays
- Contactor coils
- PLC I/O points
- Lighting circuits

Features, Benefits and Functions

- Current limiting design provides fast short circuit interruption that reduces the let-through energy which can damage the circuit.
- Thermal-magnetic overcurrent protection: Three levels, categorised by B, C and D curves in direct relation to continuous rating of device

–B Curve—3 to 5X: Suited for applications where maximum protection is required for control circuits from low level short circuit faults that could damage the wiring.

–C Curve—5 to 10X: Is positioned for medium inrush startup currents, to provide protection for small transformers, pilot devices, etc.

–D Curve—10 to 20X: Provides a magnetic range to allow for higher inrush levels during startup, that are usually seen with motors, transformers and other high inductive systems.

- Color-coded status indicator window—Red = ON or Green = OFF
- IP20 finger protection.
- Provision for dual connection—line and load:
 - Fork or pin bus bars
 - Cable direct into terminal
 - Cable utilising ring tung connector
- 35 mm DIN-rail mountable, utilising “extra strength” spring clip

Field-Mountable Accessories

- Quick 3-step process
- No tools required
- Auxiliary switch
- Combined auxiliary switch and bell alarm
- Shunt trip



1-Pole



To Order (Specify Model Number)

MOST POPULAR MODELS HIGHLIGHTED!

1-POLE						
AMPERE RATING	MODEL NO. CURVE B	PRICE	MODEL NO. CURVE C	PRICE	MODEL NO. CURVE D	PRICE
1	N/A	N/A	WMS1C01SP	£16.75	N/A	N/A
2			WMS1C02SP	16.75	WMS1D02SP	£16.75
3			WMS1C03SP	16.75	WMS1D03SP	16.75
4			WMS1C04SP	16.75	WMS1D04SP	16.75
5			WMS1C05SP	16.75	WMS1D05SP	16.75
6	WMS1B06SP	£16.75	WMS1C06SP	16.75	WMS1D06SP	16.75
7	WMS1B07SP	16.75	WMS1C07SP	16.75	WMS1D07SP	16.75
8	WMS1B08SP	16.75	WMS1C08SP	16.75	WMS1D08SP	16.75
10	WMS1B10SP	16.75	WMS1C10SP	16.75	WMS1D10SP	16.75
13	WMS1B13SP	16.75	WMS1C13SP	16.75	WMS1D13SP	16.75
15	WMS1B15SP	16.75	WMS1C15SP	16.75	WMS1D15SP	16.75
16	WMS1B16SP	16.75	WMS1C16SP	16.75	WMS1D16SP	16.75
20	WMS1B20SP	16.75	WMS1C20SP	16.75	WMS1D20SP	16.75
25	WMS1B25SP	16.75	WMS1C25SP	16.75	WMS1D25SP	16.75
30	WMS1B30SP	16.75	WMS1C30SP	16.75	WMS1D30SP	16.75

2-Pole



2-POLE						
AMPERE RATING	MODEL NO. CURVE B	PRICE	MODEL NO. CURVE C	PRICE	MODEL NO. CURVE D	PRICE
1	N/A	N/A	WMS2C01SP	£33.50	N/A	N/A
2			WMS2C02SP	33.50	WMS2D02SP	£33.50
3			WMS2C03SP	33.50	WMS2D03SP	33.50
4			WMS2C04SP	33.50	WMS2D04SP	33.50
5			WMS2C05SP	33.50	WMS2D05SP	33.50
6	WMS2B06SP	£33.50	WMS2C06SP	33.50	WMS2D06SP	33.50
7	WMS2B07SP	33.50	WMS2C07SP	33.50	WMS2D07SP	33.50
8	WMS2B08SP	33.50	WMS2C08SP	33.50	WMS2D08SP	33.50
10	WMS2B10SP	33.50	WMS2C10SP	33.50	WMS2D10SP	33.50
13	WMS2B13SP	33.50	WMS2C13SP	33.50	WMS2D13SP	33.50
15	WMS2B15SP	33.50	WMS2C15SP	33.50	WMS2D15SP	33.50
16	WMS2B16SP	33.50	WMS2C16SP	33.50	WMS2D16SP	33.50
20	WMS2B20SP	33.50	WMS2C20SP	33.50	WMS2D20SP	33.50
25	WMS2B25SP	33.50	WMS2C25SP	33.50	WMS2D25SP	33.50
30	WMS2B30SP	33.50	WMS2C30SP	33.50	WMS2D30SP	33.50

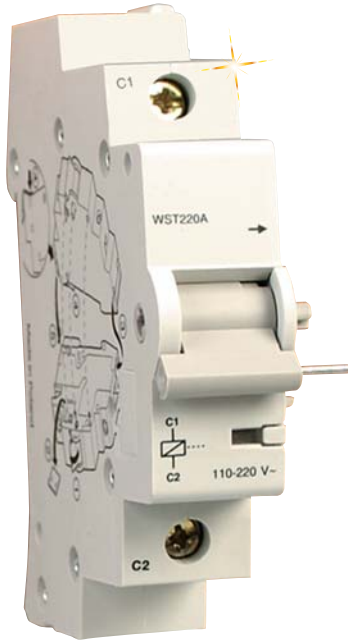
3-Pole



3-POLE						
AMPERE RATING	MODEL NO. CURVE B	PRICE	MODEL NO. CURVE C	PRICE	MODEL NO. CURVE D	PRICE
1	N/A	N/A	WMS3C01SP	£48	N/A	N/A
2			WMS3C02SP	48	WMS3D02SP	£48
3			WMS3C03SP	48	WMS3D03SP	48
4			WMS3C04SP	48	WMS3D04SP	48
5			WMS3C05SP	48	WMS3D05SP	48
6	WMS3B06SP	£48	WMS3C06SP	48	WMS3D06SP	48
7	N/A	N/A	WMS3C07SP	48	N/A	N/A
8	N/A	N/A	WMS3C08SP	48	WMS3D08SP	48
10	WMS3B10SP	48	WMS3C10SP	48	WMS3D10SP	48
13	N/A	N/A	WMS3C13SP	48	N/A	N/A
15	WMS3B15SP	48	WMS3C15SP	48	WMS3D15SP	48
16	N/A	N/A	WMS3C16SP	48	WMS3D16SP	48
20	WMS3B20SP	48	WMS3C20SP	48	WMS3D20SP	48
25	WMS3B25SP	48	WMS3C25SP	48	WMS3D25SP	48
30	WMS3B30SP	48	WMS3C30SP	48	WMS3D30SP	48



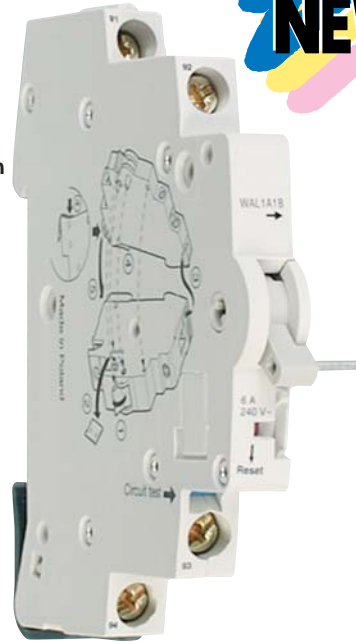
WST220A,
£30, shown
actual size.



WAX1A1B,
£17.50, shown
actual size.



WAL1A1B,
£17.50, shown
actual size.



WPLK, £10.75 shown
slightly smaller than
actual size.



WPKEY, £16
shown slightly
smaller than
actual size.



ACCESSORIES

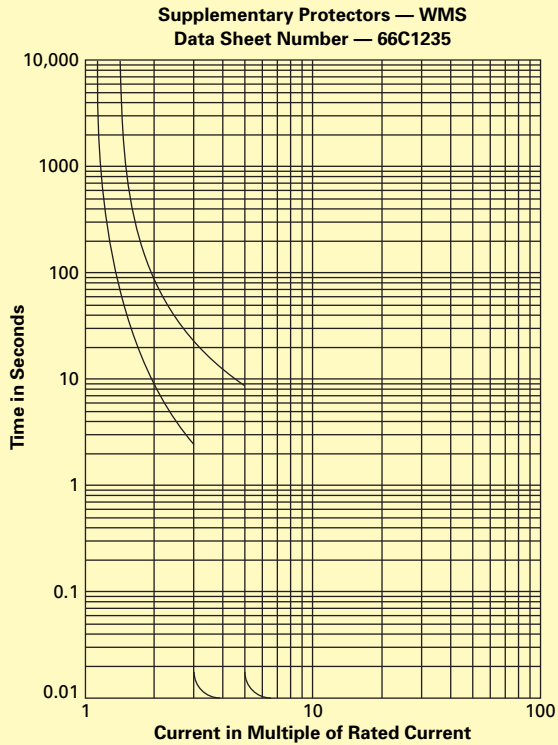
MODEL NO.	PRICE	DESCRIPTION
WAL1A1B	£17.50	Alarm 1A/1B, 240V, 6A
WAX1A1B	17.50	Auxiliary 1A/1B, 240V, 6A
WIDL-120PK	16.00	Identification label (120 per carton)
WPKEY	16.00	Padlock and keys
WPLK	10.75	Padlock provision
WST220A	30.00	Shunt trip, 120 to 220 Vac
WST415A	30.00	Shunt trip, 240 to 415 Vac
WST48D	30.00	Shunt trip, 12 to 48 Vdc

WMS SERIES ACCESSORY TECHNICAL DATA

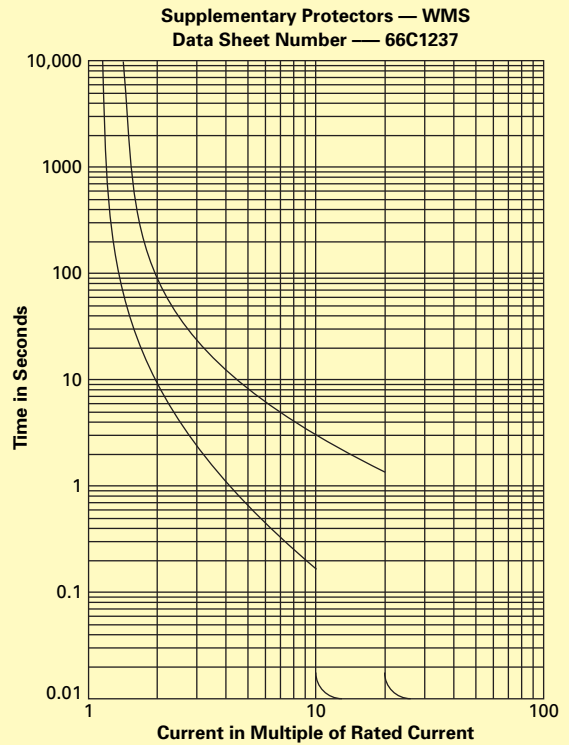
MODEL NO.	AUXILIARY SWITCH	AUXILIARY ALARM	SHUNT TRIP	UVR	ELECTRICAL CHARACTERISTICS	CABLE SIZE		TIGHTENING NM	TORQUE Kg-cm
						mm ²	AWG		
WAL1A1B	No	Yes	No	No	1 changeover contact 240V ~ 6 A	0.5 to 4	18 to 12	0.8	8.2
WAX1A1B	Yes	No	No	No	2 changeover contact 240V ~ 6 A	0.5 to 4	18 to 12	0.8	8.2
WST415A	No	No	Yes	No	230 to 415V/110 to 130V	0.5 to 4	18 to 12	0.8	8.2
WST48D	No	No	Yes	No	9 to 48V/48V	0.5 to 4	18 to 12	0.8	8.2
WST220A	No	No	Yes	No	110V/220V	0.5 to 4	18 to 12	0.8	8.2
WUVR240A	No	No	No	Yes	240V~ /110 to 130V	0.5 to 4	18 to 12	0.8	8.2
WUVR48D	No	No	No	Yes	48V/24 to 48V	0.5 to 4	18 to 12	0.8	8.2



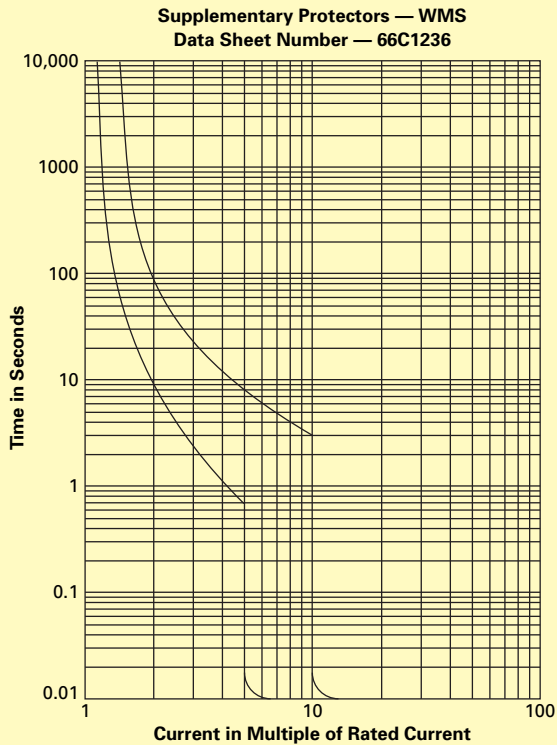
Curve B Time/Current Characteristic



Curve D Time/Current Characteristic



Curve B Time/Current Characteristic



**WMS3C20SP, £48,
shown actual size.**



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