

#### Front Mounting Auxiliary Contact Block - ACBF

For use with		Auxiliary (	Contacts	Catalog Number	List	Multiplier
FOI USC WILL		NO	NC		Price	Symbol
MPW16 MPW25 MPW65 1)			-	ACBF-11	\$20	Z4
MPW100	21 22 13 14	1		ACBF-11 MPW100	\$20	Z4

#### Left side Auxiliary Contact Block - ACBS

For use with		Auxiliary	Contacts	Catalog Number	List	Multiplier
FOI USC WILLI		NO	NC		Price	Symbol
		1	1	ACBS-11		
MPW16 MPW25 MPW65	MPW25 MPW65	2	-	ACBS-20	\$22	Z4
		-	2	ACBS-02		
	MPW100	1	1	ACBS-11 MPW100		
MPW100		2	-	ACBS-20 MPW100	\$22	Z4
		-	2	ACBS-02 MPW100		

Note: 1) The following accessories can be assembled at the same time: 1 ACBF + 1 URMP/SRMP + 1 TSB-22 or 1 ACBS + 1 URMP/SRMP + 1 TSB-22



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# Controls Manual Motor Protectors - Accessories

### Trip Signalling Block - TSB-22

For use with		Description	Catalog Number	List Price	Multiplier Symbol
MPW25 MPW65 1)		<ul> <li>-Equipped with 2 auxiliary contacts (1N0 + 1NC) for overload trip signalling and 2 other auxiliary contacts (1N0 + 1NC) for short-circuit trip signalling.</li> <li>- To reset the MPW after a short-circuit, the blue flag must be manually reset after the cause of the failure has been solved.</li> <li>- Left side auxiliary contacts can be assembled together with the trip signalling block.</li> <li>- Left side assembly only</li> </ul>	TSB-22	\$38	Z4
MPW100	Y JEE 3	<ul> <li>Equipped with 2 auxiliary contacts (1N0 + 1NC) for overload and short-circuit trip signalling.</li> <li>Left side assembly only</li> </ul>	TSB SC11 MPW100	\$38	Z4

#### Undervoltage Release - URMP

For use with		Voltage	Catalog Number	List Price	Multiplier Symbol
MPW16 MPW25 MPW65 1)		208V 60Hz 24V 50/60Hz 400-415V 50Hz / 480V 60Hz 110V 50Hz / 120V 60Hz 240V 60Hz	URMP V23 URMP D02 URMP V47 URMP V18 URMP V30	\$56	Z4
MPW100	Note: - Operating voltage > 0,85 x Ue - Non operating voltage 0,350,7 x Ue	110V 50Hz / 120V 60Hz 220-230V 50Hz / 240-260V 60Hz 380-400V 50Hz / 440-460V 60Hz	URMP V18 MPW100 URMP V33 MPW100 URMP V43 MPW100	\$56	Z4

Note: 1) The following accessories can be coupled at the same time: 1 ACBF + 1 URMP/SRMP + 1 TSB-22 or 1 ACBS + 1 URMP/SRMP + 1 TSB-22





### Shunt Release - SRMP

For use with		Voltage	Catalog Number	List Price	Multiplier Symbol
MPW16 MPW25 MPW65 1)		20-24V 50/60Hz 100-127V 50/60Hz 200-240V 50/60Hz	SRMP D51 SRMP D59 SRMP D65	\$56	Z4
MPW100	Note: - Operating voltage > 0.7 x Ue	110V 50Hz / 120V 60Hz 220-230V 50Hz / 240-260V 60Hz	SRMP V18 MPW100 SRMP V33 MPW100	\$56	Z4

Note: 1) The following accessories can be coupled at the same time: 1 ACBF + 1 URMP/SRMP + 1 TSB or 1 ACBS + 1 URMP/SRMP + 1 TSB

#### Link modules for manual motor protector assembly + contactors - ECCMP

For use with	Description	Contactors	Catalog Number	List Price	Multiplier Symbol
MPW16	- For direct connection (electrical and	CWC0716	ECCMP-C016		
MPW25	mechanical) of motor circuit breakers to contactors. Note: - Not applicable to CWM contactors with DC coils.	CWC0716 CWC025 CWM925 CWM3240	ECCMP-C0 ECCMP-C025 ECCMP-25 ECCMP-32	\$20	Z4





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# Controls Manual Motor Protectors - Accessories

### Through-the-door Rotary Handle - RMMP and MR

For use with	Illustrative picture	Description	Handle color	Catalog Number	Price List	Multiplier Symbol
				RMMP-130	\$60	
MPW25		- Degree of protection IP55/NEMA1; - Shows MPW position "I"(ON) or	Black	RMMP-330	\$70	
WPW25		"0"(OFF); - Panel door can only be opened in OFF position;	Red/	RMMP-130E	\$60	
		- Adjustable shaft length. There are 2 standard shaft sizes: 130- 155mm (Model 130) and 330-355mm (Model 330). To	Yellow	RMMP-330E	\$70	
	PW65	assembled the handle on the MPW the shaft must have a length of at least 80mm;	Black	RMMP65-130	\$60	
MDWGE		<ul> <li>Up to 3 padlocks can be used in the OFF position. This blocks MPW operation and opens panel door;</li> </ul>	DIACK	RMMP65-330	\$70	
IVIP VOD		<ul> <li>Handle can be mounted on panels with a thickness of 1 to 5mm;</li> <li>Handle can be assembled even with MPW turned in 90° position</li> </ul>	Red/	RMMP65-130E	\$60	-
			Yellow	RMMP65-330E	\$70	
		Rend dear can be append in ON position (thermometry)		-	-	Z4
		- Panel door can be opened in ON position (thermometry)     - Degree of protection: MRX = IP65/Nema 4X     - Shows MPW position "I"(ON) or "0"(OFF)	Black Red/	MRX-130	\$105	-
MPW25	A-1-1-1			MRX-330	\$115	
		- Adjustable shaft length. There are 2 standard shaft sizes: 130-		MRX-130E	\$105	
		155mm (Model 130) and 330-355mm (Model 330). To assembled the handle ON the MPW the shaft must have a length	Yellow	MRX-330E	\$115	
		of at least 80mm	Black	MRX65-130	\$120	
MPW65		- Up to 3 padlocks can be used in the OFF position. This blocks	Black	MRX65-330	\$130	
		MPW operation and opens panel door. Handle can be mounted on panels with a thickness of 1 to 5mm	Red/	MRX65-130E	\$120	
	and the second s		Yellow	MRX65-330E	\$130	
		- Degree of protection: IP65/NEMA 4X	Disal	MRX100-115	\$130	
MPW100		- Shows circuit breaker position "I"(0N) or "0"(0FF); Adjustable shaft length. There are 2 standard shaft sizes: 220-	Black	MRX100-115-E	\$130	
		282mm (Model 115) and 220-482mm (Model 315).	Red/	MRX100-315	\$140	
		Up to 3 padlocks can be used in the OFF position. This blocks MPW operation and opens panel door		MRX100-315-E	\$140	

#### **Standard IEC Enclosure - PE**

For use with	Illustrative picture	Description	Terminals	Handle color	Catalog Number	List Price	Multiplier Symbol
MPW16		- Degree of protection: IP66 - Two cable entry knockouts, top and bottom - Allows installing: MPW16 + ACBF11/PL lamps + ACBS	With neutral and ground terminals	-	PE66GN	\$45	
		- Degree of protection: IP55	With neutral and ground terminals	Black	PE55GN	\$45	Z4
MPW25		<ul> <li>Allows installing: MPW25 + ACBF11/PL lamps + ACBS</li> <li>Two cable entry knockouts, top and bottom</li> <li>Handle can be locked with up to 3 padlocks at OFF position.</li> </ul>		Red with yellow background	PE55GNE	\$45	



### Large IEC Enclosure - LPE55

For use with	Description	Terminals	Handle color	Catalog Number	List Price	Multiplier Symbol
MPW25	<ul> <li>Degree of protection: IP55</li> <li>For use with MPW25 + URMP/SRMP + ACBF11 + ACBS + PL lamps</li> <li>Two cable entry knockouts. top and bottom</li> <li>Handle can be locked with up to 3 padlocks at OFF position.</li> </ul>	With neutral and ground terminals	Black Red with yellow background	LPE55GN	\$55	Z4

### Manual Motor Protector mounting adapter + contactor - MA

For use with	Description	Contactors	Catalog Number	List Price	Multiplier Symbol
MPW25	Used for direct on line starters 45mm width	CWC0725 CWM9CWM25	MA45DOL	\$40	
MPW25	Used for reversing starters 90mm width	2 x CWC0725 CWM9CWM25	MA90RVS	\$50	Z4
PW25	Used for star-delta motor starters 90mm width	2 x CWC0725 CWM9CWM25	MA90SDS	\$50	



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## Controls Manual Motor Protectors - Accessories

### Insulators - IB

For use with	Description	Catalog Number	List Price	Multiplier Symbol
MPW100	Insulators for increasing creepage distance and clearances according to UL requirements.	IB MPW100	\$30	Z4

#### Three-phase feeder terminal – FTBBS and LST25

For use with	Description	Catalog Number	List Price	Multiplier Symbol
MPW16 MPW25	 <ul> <li>For feeding the commoning blocks;</li> <li>Rated insulation voltage: 690VAC;</li> <li>I<sub>a</sub>: 63A;</li> <li>Terminals: 6-25mm<sup>2</sup> rigid wire and 6-16mm<sup>2</sup> flexible wire with terminal.</li> </ul>	FTBBS	\$32	Z4
MPW25	<ul> <li>Block module for "Type E" Combination motor Controller" in accordance with UL (LST25+MPW+TSB-22);</li> <li>Rated insulation voltage: 690VAC;</li> <li>I<sub>a</sub>: 63A.</li> <li>Terminals: 8-20AWG.</li> </ul>	LST25	\$30	Z4

## Three-phase commoning blocks for MPW without side auxiliary contacts – BBS45

For use with	Description	Numbers of MPW	Catalog Number	List Price	Multiplier Symbol
MPW16 MPW25	<ul> <li>For parallel blocking of side-by-side mounted MPW, without side auxiliary</li> </ul>	2	BBS45-2	\$22	
	<ul> <li>contacts;</li> <li>Enables the use of frontal auxiliary contact block ACBF-11;</li> <li>U<sub>a</sub>: 690VAC;</li> <li>I<sub>a</sub>: 63A.</li> </ul>	3	BBS45-3	\$24	Z4
		4	BBS45-4	\$31	
		5	BBS45-5	\$41	

#### Three-phase commoning blocks for MPW with side auxiliary contacts – BBS54

For use with		Description	Numbers of MPW	Catalog Number	List Price	Multiplier Symbol
<b>R R R R R R</b>		<ul> <li>For parallel blocking of side-by-side mounted MPW;</li> <li>Enables the use of side auxiliary contact block ACBS</li> <li>U<sub>e</sub>: 690VAC;</li> <li>I<sub>e</sub>: 63A.</li> </ul>	2	BBS54-2	\$22	
MPW16/ MPW25	nnn hnn hnn nnn hnn hnn hnn nnn hnn hnn		3	BBS54-3	\$24	Z4
			4	BBS54-4	\$31	
			5	BBS54-5	\$41	



#### **Current Limiter - CLT25**

For use v	vith		Catalog Number	List Price	Multiplier Symbol	
MPW2	5		<ul> <li>For protecting electrical circuits where high short-circuit breaking capacity is required:</li> <li>100kA @ 480VAC;</li> <li>Note: This accessory must be used together with a MPW motor protective.</li> </ul>	CLT25	\$100	Z4

#### Shround for unused terminals – CSD

For use with		Description	Catalog Number	List Price	Multiplier Symbol
BBS45 and BBS54	F	Protection against direct contact to unused terminals on energized BBS45 and BBS54 three-phase commoning block.	CSD	\$10	Z4

#### Scale Cover - SCMP

For use with	Description	Catalog Number	List Price	Multiplier Symbol
MPW16 MPW25 MPW65	Protects the current adjustment dial against direct contact while enabling the adjusted current to be viewed.	SCMP	\$5	Z4

#### Push-in-lugs - PLMP

I	For use with		Description	Catalog Number	List Price	Multiplier Symbol
	MPW16 MPW25 MPW65	20	For direct assembly of motor protective circuit breaker onto any surface using screws.	PLMP	\$0.50	Z4



## Controls Manual Motor Protectors - MPW Technical Data

## **Auxiliary Contact Block Ratings**

ТҮРЕ			ACBF-11	ACBF-11 MPW100	ACBS-11	ACBS-20	ACBS-02	ACBS-11 MPW100	ACBS-20 MPW100	ACBS-02 MPW100
Rated Insulation Voltage Ui								•	-	
Acc. IEC; VDE 0660		[V]		300				690		
Acc. UL; CSA		[V]		240				600		
Rated Operating Voltage Ue										
Acc. IEC; VDE 0660		[V]		250				690		
Acc. UL; CSA		[V]		240				600		
Rated Impulse Voltage Uimp										
Acc. IEC60947-1		[kV]		4				6		
Overvoltage Category										
Pollution Degree				3						
Life Span										
Mechanical		[ops.]				1	00,000			
Electrical (le max.)		[ops.]				1	00,000			
Rated Thermal Current Ith		[A]		2.5				10		
Rated Operating Current le										
Acc. IEC 60947-5-1 / AC-15	24V	[A]		2				6		
	110-127V	[A]		0.5				6		
	220-240V	[A]		0.5 6						
	380-400V	[A]		-				3		
	415-450V	[A]		-				1		
	500V	[A]		-				1		
	660-690V	[A]		-				1		
Acc. UL; CSA				C300				A600		
Rated Operating Current le										
Acc. IEC 60947-5-1 / DC-13	24V	[A]		1				2		
	48V	[A]		0.3				0.8		
	60V	[A]		0.15				0.5		
	110V	[A]		-				0.5		
	220V	[A]		-				0.25 0.25		
	440V	[A]		-				0.1		
Acc. UL; CSA				R300				0.1 Q600		
Short Circuit rating without welding										
gL/gG		[A]					10			
МСВ		[A]					6			
Type of Terminal	Screw Driver					Pł	nilips #2			
Terminal Capacity										
Solid or Stranded		[mm2]				1 or 2 :	x (0.5 to 2.5)			
Solid or Stranded		[AWG]					x (18 to 14)			
Tightening Torque		[N.m]				1.	0 - 1.25			





## Controls Manual Motor Protectors - MPW Technical Data

## Trip Signalling Block

ТҮРЕ			TSB-22	TSB-11 MPW100
Rated Insulation Voltage Ui				
Acc. IEC; VDE 0660		[V]	69	)
Acc. UL; CSA		[V]	60	)
Rated Operating Voltage Ue				
Acc. IEC; VDE 0660		[V]	69	)
Acc. UL; CSA		[V]	60	)
Rated Impulse Voltage Uimp				
Acc. IEC60947-1		[kV]	6	
Overvoltage Category			III	
Pollution Degree			3	
Life Span				
Mechanical		[ops.]	1000	00
Electrical (le max.)		[ops.]	1000	00
Rated Thermal Current Ith		[A]	10	
Rated Operating Current le				
Acc. IEC 60947-5-1 / AC-15	24V	[A]	6	
	110-127V	[A]	6	
	220-240V	[A]	6	
	380-400V	[A]	3	
	415-450V	[A]	3	
	500V	[A]	2	
	660-690V	[A]	1	
Acc. UL; CSA			A60	0
Rated Operating Current le				
Acc. IEC 60947-5-1 / DC-13	24V	[A]	2	
	48V	[A]	0.5	i
	60V	[A]	0.5	i
	110V	[A]	0.5	i
	220V	[A]	0.2	5
	440V	[A]	0.1	
Acc. UL; CSA			Q60	0
Short Circuit rating without welding				
gL/gG		[A]	6	
MCB		[A]	6	
Type of Terminal	Screw Driver		Philips	3 #2
Terminal Capacity				
Solid or Stranded		[mm2]	1 or 2 x (0.	5 to 2.5)
Solid or Stranded		AWG	1 or 2 x (1	8 to 14)
Tightening Torque		[N.m (lb.in)]	1.0 - 1.25 (6	6.5 10)



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## Controls Manual Motor Protectors - MPW Technical Data

#### Shunt Release Block

ТҮРЕ			SRMP	SRMP MPW100		
Rated Insulation Voltage Ui						
Acc. IEC; VDE 0660		[V]	69	0		
Acc. UL; CSA		[V]	60	0		
Rated Operating Voltage Ue						
Acc. IEC; VDE 0660		[V]	69	0		
Acc. UL; CSA		[V]	60	0		
Rated Impulse Voltage Uimp						
Acc. IEC60947-1		[kV]	6			
Overvoltage Category						
Pollution Degree			3			
Life Span						
Mechanical		[ops.]	1000	000		
Electrical (le max.)		[ops.]	100000			
Actuating Voltage	x Us	[V]	0.7 -	1.1		
Power Consumption						
Pull-In		[VA (W)]	20.2 (13)	8.5 (6)		
Hold		[VA (W)]	7.2 (2.4)	3 (1.2)		
Maximum Opening Time		[ms]	20	)		
Short Circuit Rating without Welding						
Fuse gL/gG		[A]	10	)		
MCB		[A]	6			
Type of Terminal	Screw Driver		Philips #2			
Terminal Capacity						
Solid or Stranded		[mm2]	1 or 2 x (0	.5 to 2.5)		
Solid or Stranded		AWG	1 or 2 x (1	8 to 14)		
Tightening Torque		[N.m (lb.in)]	1.0 - 1.25 (	1.0 - 1.25 (6.5 10)		

#### **Under Voltage Release Block**

ТҮРЕ			URMP	URMP MPW100	
Rated Insulation Voltage Ui					
Acc. IEC; VDE 0660		[V]	69	90	
Acc. UL; CSA		[V]	60	00	
Rated Operating Voltage Ue					
Acc. IEC; VDE 0660		[V]	69	90	
Acc. UL; CSA		[V]	60	00	
Rated Impulse Voltage Uimp					
Acc. IEC60947-1		[kV]	(	3	
Overvoltage Category			I	I	
Pollution Degree				}	
Life Span					
Mechanical		[ops.]	100	000	
Electrical (le max.)		[ops.]	100	000	
Pick-Up Voltage	x Us	[V]	0.85	- 1.1	
Drop-Out Voltage	x Us	[V]	0.7 -	0.35	
Power Consumption					
Pull-In		[VA (W)]	20.2 (13)	8.5 (6)	
Hold		[VA (W)]	7.2 (2.4)	3 (1.2)	
Maximum Opening Time		[ms]	2	0	
Short Circuit Rating without Welding					
Fuse gL/gG		[A]	1	0	
MCB		[A]	(	3	
Type of Terminal	Screw Driver		Philips #2		
Terminal Capacity					
Solid or Stranded		[mm2]	1 or 2 x (0	).5 to 2.5)	
Solid or Stranded		AWG	1 or 2 x (18 to 14)		
Tightening Torque		[N.m]	1.0 - 1.25	(6.5 10)	