

### M-PACT Plus Air Circuit Breakers

#### AIR Circuit Breakers - Type S - 50kA - Automatic - 3 Pole - 1000A - 2500A

- Basic Circuit Breaker, Manually Operated
- Automatic Tripping (must be fitted with M-Pro protection Unit)
- 5NO/3NC auxiliary switches
- Withdrawable - Basic Circuit breaker and cassette with flat copper terminals, rear connected

Note: 65kA & 80kA Units available on request, POA

Item Code	6-digit	Rating (A)	Poles	Frame Size	Pattern	Price
MS31W10-A	406183	1000A	3P	1	Withdrawable	
MS31W12-A	406185	1250A	3P	1	Withdrawable	
MS31W16-A	406187	1600A	3P	1	Withdrawable	
MS31W20-A	406189	2000A	3P	1	Withdrawable	
MS31W25-A	406191	2500A	3P	1	Withdrawable	
MS31F10-A	405241	1000A	3P	1	Fixed	
MS31F12-A	405247	1250A	3P	1	Fixed	
MS31F16-A	405249	1600A	3P	1	Fixed	
MS31F20-A	405251	2000A	3P	1	Fixed	
MS31F25-A	405253	2500A	3P	1	Fixed	



#### AIR Circuit Breakers - Type S - 65kA - Automatic - 3 Pole - 2500A - 4000A

- Basic Circuit Breaker, Manually Operated
- Automatic Tripping (must be fitted with M-Pro protection Unit)
- 5NO/3NC auxiliary switches
- Withdrawable - Basic Circuit breaker and cassette with flat copper terminals, rear connected
- Fixed - Basic Circuit breaker with rear horizontal terminals

Note: 50kA & 80kA Units available on request, POA

Item Code	6-digit	Rating (A)	Poles	Frame Size	Pattern	Price
MN32W25-A	405445	2500A	3P	2	Withdrawable	
MN32W32-A	405453	3200A	3P	2	Withdrawable	
MN32W40-A	405455	4000A	3P	2	Withdrawable	
MN32F25-A	405781	2500A	3P	2	Fixed	
MN32F32-A	405783	3200A	3P	2	Fixed	
MN32F40-A	405785	4000A	3P	2	Fixed	



#### AIR Circuit Breakers - Type S - 50kA - Automatic - 4 Pole - 1600A - 2500A

- Basic Circuit Breaker, Manually Operated
- Automatic Tripping (must be fitted with M-Pro protection Unit)
- 5NO/3NC auxiliary switches
- Neutral Position - Right
- Withdrawable - Basic Circuit breaker and cassette with flat copper terminals, rear connected
- Fixed - Basic Circuit breaker with rear horizontal terminals

Note: 65kA & 80kA Units available on request, POA

Item Code	6-digit	Rating (A)	Poles	Frame Size	Pattern	Price
MS4L1W16-A	406188	1600A	4P	1	Withdrawable	
MS4L1W20-A	406190	2000A	4P	1	Withdrawable	
MS4L1W25-A	406192	2500A	4P	1	Withdrawable	
MS4L1F16-A	405248	1600A	4P	1	Fixed	
MS4L1F20-A	405250	2000A	4P	1	Fixed	
MS4L1F25-A	405252	2500A	4P	1	Fixed	



#### AIR Circuit Breakers - Type S - 65kA - Automatic - 4 Pole - 2500A - 4000A

- Basic Circuit Breaker, Manually Operated
- Automatic Tripping (must be fitted with M-Pro protection Unit)
- 5NO/3NC auxiliary switches
- Neutral Position - Right
- Withdrawable - Basic Circuit breaker and cassette with flat copper terminals, rear connected
- Fixed - Basic Circuit breaker with rear horizontal terminals

Note: 50kA & 80kA Units available on request, POA

Item Code	6-digit	Rating (A)	Poles	Frame Size	Pattern	Price
MN4L2W25-A	405444	2500A	4P	2	Withdrawable	
MN4L2W32-A	405452	3200A	4P	2	Withdrawable	
MN4L2W40-A	405454	4000A	4P	2	Withdrawable	
MN4L2F25-A	405780	2500A	4P	2	Fixed	
MN4L2F32-A	405782	3200A	4P	2	Fixed	
MN4L2F40-A	405784	4000A	4P	2	Fixed	





### AIR Circuit Breakers - Type S - 50kA - Isolator - 3 Pole - 1000A - 2500A

- Basic Isolator, Manually Operated
  - 5NO/3NC auxiliary switches
  - External Tripping - use shunt trip with 3rd party relay & CT's
  - Withdrawable - Basic Circuit breaker and cassette with flat copper terminals, rear connected
  - Fixed - Basic Circuit breaker with rear horizontal terminals
- Note: 65kA & 80kA Units available on request, POA

Item Code	6-digit	Rating (A)	Poles	Frame Size	Pattern
MS31W10	405109	1000A	3P	1	Withdrawable
MS31W16	405113	1600A	3P	1	Withdrawable
MS31W20	405115	2000A	3P	1	Withdrawable
MS31W25	405117	2500A	3P	1	Withdrawable
MS31F10	405139	1000A	3P	1	Fixed
MS31F16	405143	1600A	3P	1	Fixed
MS31F20	405145	2000A	3P	1	Fixed
MS31F25	405147	2500A	3P	1	Fixed



### AIR Circuit Breakers - Type S - 65kA - Isolator - 3 Pole - 2500A - 4000A

- Basic Isolator, Manually Operated
  - 5NO/3NC auxiliary switches
  - External Tripping - use shunt trip with 3rd party relay & CT's
  - Withdrawable - Basic Circuit breaker and cassette with flat copper terminals, rear connected
  - Fixed - Basic Circuit breaker with rear horizontal terminals
- Note: 50kA & 80kA Units available on request, POA

Item Code	6-digit	Rating (A)	Poles	Frame Size	Pattern
MN32W25	405181	2500A	3P	2	Withdrawable
MN32W32	405183	3200A	3P	2	Withdrawable
MN32W40	405185	4000A	3P	2	Withdrawable
MN32F25	405211	2500A	3P	2	Fixed
MN32F32	405213	3200A	3P	2	Fixed
MN32F40	405215	4000A	3P	2	Fixed



### AIR Circuit Breakers - Type S - 50kA - Isolator - 4 Pole - 1000A - 2500A

- Basic Isolator, Manually Operated
  - 5NO/3NC auxiliary switches
  - External Tripping - use shunt trip with 3rd party relay & CT's
  - Withdrawable - Basic Circuit breaker and cassette with flat copper terminals, rear connected
  - Fixed - Basic Circuit breaker with rear horizontal terminals
- Note: 65kA & 80kA Units available on request, POA

Item Code	6-digit	Rating (A)	Poles	Frame Size	Pattern
MS4L1W10	405108	1000A	4P	1	Withdrawable
MS4L1W16	405112	1600A	4P	1	Withdrawable
MS4L1W20	405114	2000A	4P	1	Withdrawable
MS4L1W25	405116	2500A	4P	1	Withdrawable
MS4L1F10	405138	1000A	4P	1	Fixed
MS4L1F16	405142	1600A	4P	1	Fixed
MS4L1F20	405144	2000A	4P	1	Fixed
MS4L1F25	405146	2500A	4P	1	Fixed



### AIR Circuit Breakers - Type S - 65kA - Isolator - 4 Pole - 2500A - 4000A

- Basic Isolator, Manually Operated
  - 5NO/3NC auxiliary switches
  - External Tripping - use shunt trip with 3rd party relay & CT's
  - Withdrawable - Basic Circuit breaker and cassette with flat copper terminals, rear connected
  - Fixed - Basic Circuit breaker with rear horizontal terminals
- Note: 65kA & 80kA Units available on request, POA

Item Code	6-digit	Rating (A)	Poles	Frame Size	Pattern
MN4L2W25	405180	2500A	4P	2	Withdrawable
MN4L2W32	405182	3200A	4P	2	Withdrawable
MN4L2W40	405184	4000A	4P	2	Withdrawable
MN4L2F25	405210	2500A	4P	2	Fixed
MN4L2F32	405212	3200A	4P	2	Fixed
MN4L2F40	405214	4000A	4P	2	Fixed





M-PRO 27 Protection Relays - Factory Fitted (specify on order of ACB)				
Basic Functionality Version			Extended Functionality Version additional functions	
<ul style="list-style-type: none"> <li>• LT-C 0.4-1 x In = Ir</li> <li>• LTDB</li> <li>• ST I2t ON or OFF</li> <li>• STDB</li> <li>• LI</li> </ul>			<ul style="list-style-type: none"> <li>• GF sum. I2t ON</li> <li>• GFDB</li> </ul>	
Item Code	6-digit	Type	Frame Size	
GL100M3-SF	408870	Basic	1	
GL200M3-SF	408874	Basic	2	
GL100M5-SF	408871	Extended	1	
GL200M5-SF	408875	Extended	2	



M-PRO 27 Protection Relays - Spare Units				
Basic Functionality Version			Extended Functionality Version additional functions	
<ul style="list-style-type: none"> <li>• LT-C 0.4-1 x In = Ir</li> <li>• LTDB</li> <li>• ST I2t ON or OFF</li> <li>• STDB</li> <li>• LI</li> </ul>			<ul style="list-style-type: none"> <li>• GF sum. I2t ON</li> <li>• GFDB</li> </ul>	
Item Code	6-digit	Type	Frame Size	
GL100M3-SR	408882	Basic	1	
GL200M3-SR	408886	Basic	2	
GL100M5-SR	408883	Extended	1	
GL200M5-SR	408887	Extended	2	



M-PRO 50L/H Protection Relays - Factory Fitted (specify on order of ACB)				
Basic Functionality Version			Extended Functionality Version additional functions	
<ul style="list-style-type: none"> <li>• LT-C/F 0.4-1 x In = Ir</li> <li>• ST &amp; STD</li> <li>• GFDB</li> <li>• GF CR I2t ON</li> <li>• I &amp; RELT</li> </ul>			<ul style="list-style-type: none"> <li>• LT band choice (LT-C or LT-F)</li> <li>• Dual GF protection (Res./SUM or CT)</li> <li>• Relt Instantaneous &amp; Modbus Communication</li> </ul>	
Item Code	6-digit	Input Supply Voltage	Type	Frame Size
GH100M7-6SF	408872	24VDC	Basic	1
GH200M7-6SF	408876	24VDC	Basic	2
GQ100M7-6SF	408873	110-130VDC or 110-250VAC	Extended	1
GQ200M7-6SF	408877	110-130VDC or 110-250VAC	Extended	2



M-PRO 50L/H Protection Relays - Spare Units				
Basic Functionality Version			Extended Functionality Version additional functions	
<ul style="list-style-type: none"> <li>• LT-C/F 0.4-1 x In = Ir</li> <li>• ST &amp; STD</li> <li>• GFDB</li> <li>• GF CR I2t ON</li> <li>• I &amp; RELT</li> </ul>			<ul style="list-style-type: none"> <li>• LT band choice (LT-C or LT-F)</li> <li>• Dual GF protection (Res./SUM or CT)</li> <li>• Relt Instantaneous &amp; Modbus Communication</li> </ul>	
Item Code	6-digit	Input Supply Voltage	Type	Frame Size
GH100M7-6SR	408884	24VDC	Basic	1
GH200M7-6SR	408888	24VDC	Basic	2
GQ100M7-6SR	408885	110-130VDC or 110-250VAC	Extended	1
GQ200M7-6SR	408889	110-130VDC or 110-250VAC	Extended	2



M-Pact Shunt Trip Coils, Frame 1 & 2			
Item Code	6-digit	Coil Voltage	
ST30	405380	24V DC	
ST48	405382	48V DC	
ST130	405386	110V AC/DC	
ST250	405388	220V AC/DC	
ST440	405389	380V AC/DC	



M-Pact Motor Operators Frame 1 & 2			
Item Code	6-digit	Coil Voltage	
MOP30	405440	24V DC	
MOP48	405442	48V DC	
MOP130A	405446	110V AC	
MOP130D	405917	110V AC/DC	
MOP250A	405448	220V AC	



M-Pact Closing Coil			
Item Code	6-digit	Coil Voltage	
CC30	405420	24V DC	
CC48	405422	48V DC	
CC130	405426	110V AC/DC	
CC250	405428	220V AC/DC	



M-Pact Undervoltage Release Coil			
Item Code	6-digit	Coil Voltage	
UV30	405400	24V DC	
UV130A	405406	110V AC	
UV130D	405407	110V DC	
UV250	405408	220V AC	
UV440	405409	380V AC	

M-Pact Time Delayed Undervoltage Release Coil			
Item Code	6-digit	Coil Voltage	
UVTD130	406326	110V AC	
UVTD250	405411	220V AC	
UVTD440	405413	380V AC	

M-Pact Carriage Auxiliary Options			
Item Code	6-digit	Description	
CSWL	405581	Carriage Switch	
SCC	405450	Spring Charged Signal ( x1 N/O)	
2WPFC	405451	Spring Charged Signal ( x1 N/C)	
TRIPCS	406112	Trip Circuit Supervision (Shunt Trip Required)	

M-Pact Mechanical Interlocks (2-Way Interlock / Cable)					
• Order 1 interlock kit & 1 cable per ACB					
Item Code	6-digit	Frame Size	Poles	Type	
2WCI3PW	406342	1	3	Withdrawable	
2WCI4PW	406343	1	4	Withdrawable	
2WCI3PF	406340	1	3	Fixed	
2WCI4PF	406341	1	4	Fixed	
2WCIF23PW	405459	2	3	Withdrawable	
2WCIF24PW	405461	2	4	Withdrawable	
2WCIF23PF	405463	2	3	Fixed	
2WCIF24PF	405465	2	4	Fixed	

M-Pact Mechanical Interlocks (1 from 3-Way Interlock / Cable)					
• Order 1 interlock kit & 2 cables per ACB					
Item Code	6-digit	Frame Size	Poles	Type	
B13WCI3PW	406350	1	3	Withdrawable	
B13WCI4PW	406351	1	4	Withdrawable	
B13WCI3PF	406348	1	3	Fixed	
B13WCI4PF	406349	1	4	Fixed	
B13WCIF23PW	405475	2	3	Withdrawable	
B13WCIF24PW	405477	2	4	Withdrawable	

Cable for Interlocks			
Item Code	6-digit	Description	
100BCMCI	405531	1.0 metre length cable	
160BCMCI	405532	1.6 metre length cable	
200BCMCI	405533	2.0 metre length cable	
250BCMCI	405610	2.5 metre length cable	
300BCMCI	405611	3.0 metre length cable	
350BCMCI	405612	3.5 metre length cable	
400BCMCI	405613	4.0 metre length cable	