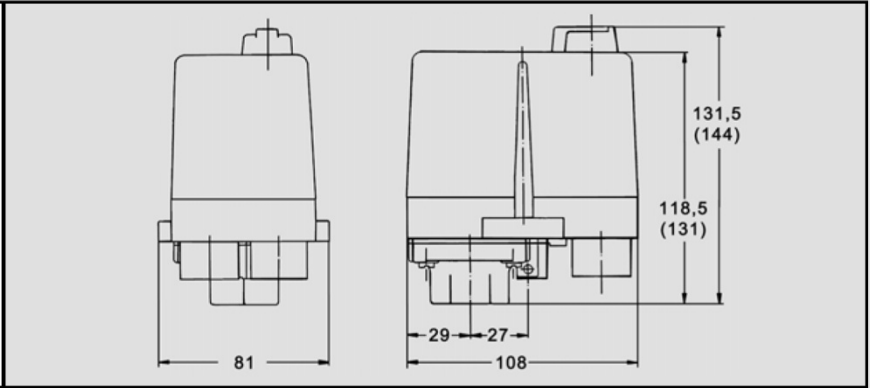


Pressure Switch MDR 3

3-phase; Switching capacity 7.5 (11) kW
available with overload relay
max.cut-out pressure 35 bar



Technical Data MDR 3

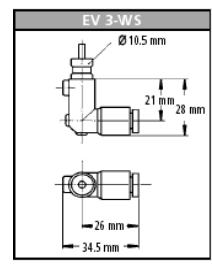
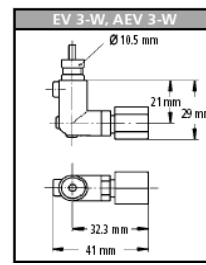
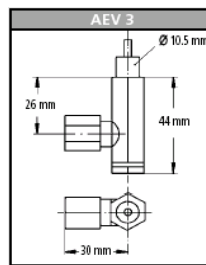
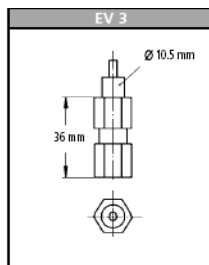
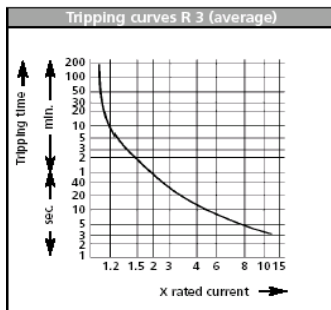
Technical Data MDR 3 acc. to EN 60947 UL / CSA	
Rated insulation voltage U_i	690 V
Motor switching capacity (UL 508, CSA 22.2) $U_e=120$ V (1~)	2 HP
Motor switching capacity (AC 3) $U_e=240$ V (1~)	5.5 kW
Motor switching capacity (UL 508, CSA 22.2) $U_e=240$ V (1~)	5 HP
Motor switching capacity (AC 3) $U_e=240$ V (3~)	5.5 kW
Motor switching capacity (UL 508, CSA 22.2) $U_e=240$ V (3~)	7.5 HP
Motor switching capacity (AC 3) $U_e=400$ V (3~)	7.5/11* kW
Motor switching capacity (UL 508, CSA 22.2) $U_e=480$ V (3~)	15 HP
Motor switching capacity (AC 3) $U_e=500$ V (3~)	7.5/11* kW
Motor switching capacity (UL 508, CSA 22.2) $U_e=600$ V (3~)	20 HP
Motor switching capacity (AC 3) $U_e=690$ V (3~)	7.5/11* kW

* With arc-chamber Sk-... H on demand

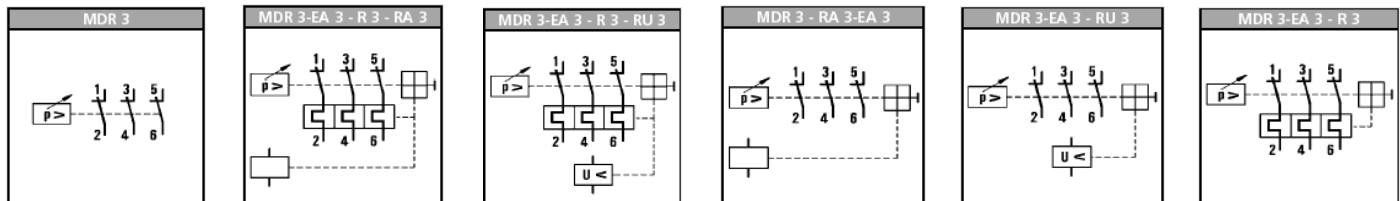
Technical Data MDR 3 acc. to EN 60947 UL / CSA	
Electrical life (AC 3) Cycles	$> 1 \times 10^5$
Mechanical life Cycles	$> 1 \times 10^6$
Max. electrical cycles Cycles/h	120
Max. mechanical cycles Cycles/h	600
Rated operational current I_o at 240 V AC	24 A
Bursting strength P_z	$\leq 16 > 40$ bar $\geq 25 > 60$ bar
Permissible medium temperature Air	-5...+ 80 °C
Permissible medium temperature Water	+ 80 °C
Degree of Protection acc. to EN 60529	IP 54
Conductor cross-section 1 ... Fine stranded 1 x / 2 x	4 / 2.5 mm ²
Conductor cross-section 1 ... Rigid cable 1 x / 2 x	6 / 4 mm ²

Diaphragm media resistance MDR 3	
Air, Water	resistant

Diaphragm media resistance MDR 3 RM	
Acetylene, Ammonia 25%, Butane, Natural gas, Vinegar 25 %, Ethylene glycol, Glycerol, Urine, Carbon dioxide, Carbonic acid, Air, Vegetable oil, Propane, Silicon oil, Nitrogen, Water, Hydrogen, Sea water	resistant



Circuit Diagrams



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Pressure Switch MDR 3



Pressure Switches

Condor Code	ON/OFF switch	Pressure Range In kPa	Connection	Thermal Overload (Amps)	RM Diaphragm	Weight (gms)	Part Number
600 kPa							
MDR3/600 G1/4 2PG11Z	-	130-600	¼" BSP F	-	-	680	3031010
1100 kPa							
MDR3/1100 G1/4 EA3 2PG13.5Z	EA	400-1100	¼" BSP F	-	-	680	3031021
MDR3/1100 F4-1/4 EA3 2PG13.5Z	EA	400-1100	F4 X ¼" BSP F	-	-	710	3031022
Switches with thermal overload protection							
MDR3/1100 F4-1/4 EA3 R3/4 EV3WS 2PG13.5Z	EA	400-1100	F4 x ¼" BSP F	2.5-4.0	-	750	3031129
MDR3/1100 G1/4 EA3 R3/6.3 EV3Wi 2PG13.5Z	EA	400-1100	¼" BSP F	4.0-6.3	-	740	3031105
MDR3/1100 G1/4 EA3 R3/6.3 EV3i 2PG13.5Z	EA	400-1100	¼" BSP F	4.0-6.3	-	740	3031120
MDR3/1100 F4-1/4 EA3 R3/6.3 EV3WS 2PG13.5Z	EA	400-1100	F4 x ¼" BSP F	4.0-6.3	-	750	3031130
MDR3/1100 G1/4 EA3 R3/10 EV3i 2PG13.5Z	EA	400-1100	¼" BSP F	6.3-10.0	-	740	3031121
MDR3/1100 G1/4 EA3 R3/10 EV3WS 2PG13.5Z	EA	400-1100	¼" BSP F	6.3-10.0	-	740	3031152
MDR3/1100 F4-1/4 EA3 R3/10 EV3WS 2PG13.5Z	EA	400-1100	F4 x ¼" BSP F	6.3-10.0	-	750	3031131
MDR3/1100RM G1/4 EA3 R3/10 EV3Wi 2PG13.5Z	EA	400-1000	¼" BSP F	6.3-10.0	YES	740	3031106
MDR3/1100 G1/4 EA3 R3/16 EV3i 2PG13.5Z	EA	400-1100	¼" BSP F	10-16	-	740	3031122
MDR3/1100 F4-1/4 EA3 R3/16 EV3WS 2PG13.5Z	EA	400-1100	F4 X ¼" BSP F	10-16	-	770	3031132
MDR3/1100RM G1/4 EA3 R3/16 EV3Wi 2PG13.5Z	EA	400-1000	¼" BSP F	10-16	YES	740	3031107
MDR3/1100RM G1/4 EA3 R3/16H EV3Wi 2PG13.5Z	EA	400-1000	¼" BSP F	10-16	YES	740	3031107C
MDR3/1100 G1/4 EA3 R3/20 EV3i 2PG13.5Z	EA	400-1100	¼" BSP F	16-20	-	740	3031123
MDR3/1100 F4-1/4 EA3 R3/20 EV3WS 2PG13.5Z	EA	400-1100	F4 x ¼" BSP F	16-20	-	750	3031133
MDR3/1100RM G1/4 EA3 R3/20 EV3Wi 2PG13.5Z	EA	400-1000	¼" BSP F	16-20	YES	740	3031108
MDR3/1100 G1/4 EA3 R3/24 EV3i 2PG13.5Z	EA	400-1100	¼" BSP F	20-24	-	740	3031124
MDR3/1100RM G1/4 EA3 R3/24 EV3Wi 2PG13.5Z	EA	400-1000	¼" BSP F	20-24	YES	740	3031109
MDR3/1100 G1/4 EA3 R3/30 EV3i 2PG13.5Z	EA	400-1100	¼" BSP F	22-30	-	740	3031125
Switches with thermal overload and shunt release							
MDR3/1100 F4-1/4 EA3 R3/10 RA/230 EV3Wi 2PG13.5Z	EA	400-1100	F4 X ¼" BSP F	6.3-10.0	-	870	3031116
MDR3/1100 F4-1/4 EA3 R3/16 RA/230 EV3Wi 2PG13.5Z	EA	400-1100	F4 X ¼" BSP F	10-16	-	870	3031117
MDR3/1100 F4-1/4 EA3 R3/20 RA/230 EV3Wi 2PG13.5Z	EA	400-1100	F4 X ¼" BSP F	16-20	-	870	3031118
1600 kPa							
MDR3/1600 G1/4 EA3 2PG13.5Z	EA	600-1600	¼" BSP F	-	-	680	3031031
MDR3/1600 F4-1/4 EA3 2PG13.5Z	EA	600-1600	F4 X ¼" BSP F	-	-	710	3031032
MDR3/1600 F4-1/4 EA3 EV3i 2PG13.5Z	EA	600-1600	F4 X ¼" BSP F	-	-	710	3031033
Switches with thermal overload protection							
MDR3/1600 G1/4 EA3 R3/10 EV3WS 2PG13.5Z	EA	600-1600	¼" BSP F	6.3-10.0	-	740	3031036
MDR3/1600 G1/4 EA3 R3/16 EV3WS 2PG13.5Z	EA	600-1600	¼" BSP F	10-16	-	740	3031037
2500 kPa							
MDR3/2500 G1/4 EA3 2PG13.5Z	EA	750-2500	¼" BSP F	-	-	710	3031041
3500 kPa							
MDR3/3500 G1/2 EA3 2PG13.5Z	EA	1200-3500	½" BSP F	-	-	700	3031043

Pressure Switch Accessories

Condor Code	Description	Weight (gms)	Part Number
Unloader valves			
EV3	With screw fitting for 6 mm plastic or copper discharge line	25	On Request
EV3i	With screw fitting for ¼" plastic or copper discharge line	25	3909020
EV3Wi + ST3	Right-angle valve with screw fitting for ¼" plastic or copper discharge line	18	3909031
EV3WS	Right-angle valve with quick-connect for 6 mm plastic discharge line	10	3909030
Unloader valves for difficult motor starting conditions			
AEV3	With screw fitting for 6 mm plastic or copper discharge line	25	On Request
AEV3WS	Right-angle valve with quick-connect for 6 mm plastic discharge line	18	3909032
Cable Glands			
PG13.5Z	With strain Relief	12	3919205
PG16V	Complete	12	3919210



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Pressure Switch MDR 3

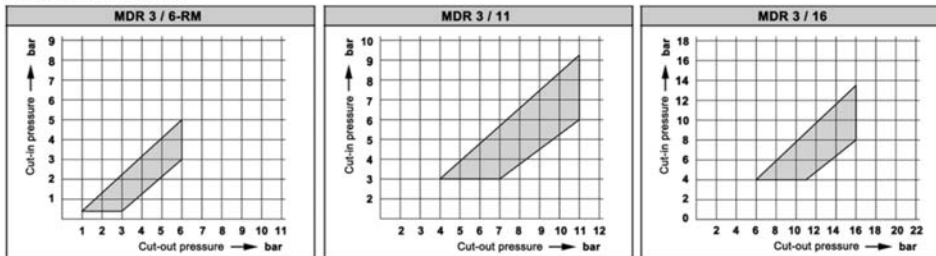


Pressure Switch Accessories Continued

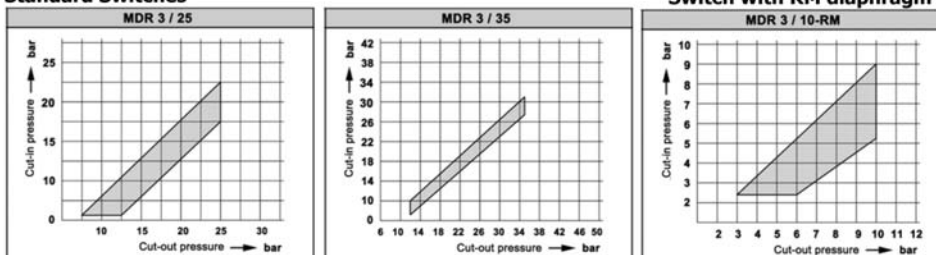
Condor Code	Description	Weight (gms)	Part Number
	Cover		
H3	Cover without rotary knob	100	3032920
H3-EA	Cover with rotary knob for manual On/Off switching	100	3032922
	Thermal, 3-pole overload relay		
SK3	Contact block without lock mechanism (supplied as standard with MDR3...)	90	3032930
SK3-S	Contact block with lock mechanism (supplied as standard with MDR3...+EA)	110	3032932
SK R3/1.0	0.63 - 1.00 Amps	145	On Request
SK R3/1.6	1.00 - 1.60 Amps	145	On Request
SK R3/2.5	1.60 - 2.50 Amps	145	On Request
SK R3/4.0	2.50 - 4.00 Amps	145	3032804
SK R3/6.3	4.00 - 6.30 Amps	145	3032805
SK R3/10	6.30 - 10.00 Amps	145	3032806
SK R3/16	10.00 - 16.00 Amps	145	3032807
SK R3/20	16.00 - 20.00 Amps	145	3032808
SK R3/24	20.00 - 24.00 Amps	145	3032809
SK R3/30/2	22.00 - 30.00 Amps, 240 Volts, 2 pole	145	3032810
SK R3H/16	10.00 - 16.00 Amps, (H type for higher switching capacity)	145	3032807C
SK R3H/20	16.00 - 20.00 Amps, (H type for higher switching capacity)	145	On Request
SK R3H/24	20.00 - 24.00 Amps, (H type for higher switching capacity)	145	On Request
	Under voltage and shunt releases		
RU3/230-50	Under voltage release 230 V, 50 Hz	100	3032924
RU3/400-50	Under voltage release 400 V, 50 Hz	100	3032925
RA3/480-60	Shunt release 480V, 60 Hz	100	On Request
RA3/240-60	Shunt release 240V, 60 Hz	100	On Request
RA3/230-50	Shunt release 230V, 50 Hz	100	3032820
RA3/110-50	Shunt release 110V, 50 Hz	100	On Request
RA3/24-50	Shunt release 24V, 50 Hz	100	On Request
	Hourmeter Kit		
H3-EA-B230	Hourmeter	230	3032950
H3-EA-B400	Hourmeter	230	3032951
	Miscellaneous		
DPA Board	Phase sequence control, phase failure control, under voltage release, other external contact (eg, temperature switch)	60	3032960
	Spares		
	¼" Nut & olive	25	3909099
	6mm nut & olive	25	3909098

Pressure Diagrams:

Standard Switches



Standard Switches



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