



HMD180



## MCB 1P 15kA D-80A 1.5M

## **Technical properties**

Arc	-hi	+~	ct.	IFO

Architecture	
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	D
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	1.5
Connectivity	
Top connection alignement for modular devices	Aligned terminal
Bottom connection alignement for modular devices	Aligned terminal
Main electrical features	
Rated short circuit breaking capacity Icn AC according IEC60898-1	15 kA
Rated operational voltage Ue	240 / 415 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V
Electric current	
Rated current	80 A
Rated service breaking capacity Ics AC according IEC 60898-1	7.5 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 ln
Magnetic regulating currrent	10 / 20 In
Rating current -10°C according to IEC 60947	112 A
Rating current -15°C according to IEC 60947	115 A
Rating current -20°C according to IEC 60947	118 A
Rating current -25°C according to IEC 60947	122 A

Rating current 0°C according to IEC 60947 Rating current 10°C according to IEC 60947 Rating current 20°C according to IEC 60947 Rating current 20°C according to IEC 60947 Rating current 20°C according to IEC 60947 Rating current 30°C according to IEC 60947 Rating current 30°C according to IEC 60947 Rating current 40°C according to IEC 60947 Rating current 40°C according to IEC 60947 Rating current 45°C according to IEC 60947 Rating current 50°C according to IEC 60947 Rating current 50°C according to IEC 60947 Rating current 50°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 70°C according to IEC 60947 Rating current 70°C according to IEC 60947 Breaking capacity on 1 pole for IT 400V NF 60947-2  Breaking capacity on 1 pole for IT 415V NF 60947-2  Rated short circuit breaking capacity Icn under 230V AC according IEC60988-1 Rated short circuit breaking capacity Icn under 400V AC according IEC60988-1 Rated short circuit breaking capacity Icn under 400V AC according IEC60988-1 Rated short circuit breaking capacity Icn under 400V AC according IEC60947-2  Rated ultimate short-circuit breaking capacity Icn under 230V AC IEC 60947-2  Electric current / temperature  Rating current -20°C Rating current -20°C Rating current -5°C Rating current -0°C Rating current -0°C Rating current 0°C Rating current 5°C Rating current 5°C Rating current 5°C Rating current 5°C Rating current 20°C	106 A 99.2 A 96 A 92.8 A 89.6 A 86.4 A 83.2 A 80 A 77.6 A
Rating current 15°C according to IEC 60947 Rating current 20°C according to IEC 60947 Rating current 30°C according to IEC 60947 Rating current 30°C according to IEC 60947 Rating current 40°C according to IEC 60947 Rating current 40°C according to IEC 60947 Rating current 45°C according to IEC 60947 Rating current 5°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 70°C according to IEC 60947 Breaking capacity on 1 pole for IT 400V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 Rated service breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rating current / temperature  Rating current -15°C Rating current -10°C Rating current 5°C Rating current 5°C Rating current 5°C Rating current 15°C Rating current 15°C Rating current 10°C Rating current 20°C Rating current 20°C Rating current 20°C Rating current 20°C	96 A 92.8 A 89.6 A 86.4 A 83.2 A 80 A
Rating current 20°C according to IEC 60947 Rating current 25°C according to IEC 60947 Rating current 30°C according to IEC 60947 Rating current 40°C according to IEC 60947 Rating current 40°C according to IEC 60947 Rating current 45°C according to IEC 60947 Rating current 5°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 70°C according to IEC 60947 Breaking capacity on 1 pole for IT 400V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 Rated service breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rating current / temperature Rating current - 10°C Rating current - 10°C Rating current - 5°C Rating current 10°C Rating current 10°C Rating current 10°C Rating current 10°C Rating current 20°C Rating current 20°C	92.8 A 89.6 A 86.4 A 83.2 A 80 A 77.6 A
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Rating current 35°C according to IEC 60947 Rating current 40°C according to IEC 60947 Rating current 45°C according to IEC 60947 Rating current 55°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 70°C according to IEC 60947 Rating current 70°C according to IEC 60947 Breaking capacity on 1 pole for IT 400V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Rated short circuit breaking capacity Icn under 230V AC according IEC 60989-1 Rated short circuit breaking capacity Icn under 400V AC according IEC 60989-1 Rated short circuit breaking capacity Icn under 400V AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rating current / temperature Rating current -15°C Rating current -15°C Rating current 15°C Rating current 25°C Rating current 25°C	83.2 A 80 A 77.6 A
Rating current 40°C according to IEC 60947 Rating current 5°C according to IEC 60947 Rating current 5°C according to IEC 60947 Rating current 5°C according to IEC 60947 Rating current 55°C according to IEC 60947 Rating current 55°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 70°C according to IEC 60947 Rating current 70°C according to IEC 60947 Breaking capacity on 1 pole for IT 400V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Rated short circuit breaking capacity Icn under 230V AC according IEC 60989-1 Rated short circuit breaking capacity Icn under 400V AC according IEC 60989-1 Rated svorvice breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rating current -15°C Rating current -15°C Rating current 15°C Rating current 10°C Rating current 10°C Rating current 10°C Rating current 15°C Rating current 15°C Rating current 20°C	80 A 77.6 A
Rating current 45°C according to IEC 60947 Rating current 5°C according to IEC 60947 Rating current 5°C according to IEC 60947 Rating current 55°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 65°C according to IEC 60947 Rating current 65°C according to IEC 60947 Rating current 70°C according to IEC 60947 Breaking capacity on 1 pole for IT 400V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Rated short circuit breaking capacity Icn under 230V AC according IEC 60988-1 Rated stort circuit breaking capacity Icn under 400V AC according IEC 60898-1 Rated service breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rating current -25°C Rating current -15°C Rating current -10°C Rating current 5°C Rating current 10°C Rating current 15°C Rating current 25°C Rating current 25°C	77.6 A
Rating current 5°C according to IEC 60947 Rating current 50°C according to IEC 60947 Rating current 50°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 65°C according to IEC 60947 Rating current 70°C according to IEC 60947 Breaking capacity on 1 pole for IT 400V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 Rated service breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rating current -25°C Rating current -15°C Rating current -10°C Rating current 10°C Rating current 10°C Rating current 10°C Rating current 10°C Rating current 15°C Rating current 15°C Rating current 15°C Rating current 15°C Rating current 25°C Rating current 25°C Rating current 25°C	
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Rating current 55°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 65°C according to IEC 60947 Rating current 70°C according to IEC 60947 Breaking capacity on 1 pole for IT 400V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1 Rated service breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Electric current / temperature Rating current -25°C Rating current -0°C Rating current -0°C Rating current 0°C Rating current 10°C Rating current 10°C Rating current 15°C Rating current 20°C	
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Rating current 65°C according to IEC 60947  Rating current 70°C according to IEC 60947  Breaking capacity on 1 pole for IT 400V NF 60947-2  Breaking capacity on 1 pole for IT 415V NF 60947-2  Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1  Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1  Rated service breaking capacity Ics AC according IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  Rating current -10°C  Rating current -0°C  Rating current 0°C  Rating current 10°C  Rating current 15°C  Rating current 20°C	72.6 A
Rating current 70°C according to IEC 60947  Breaking capacity on 1 pole for IT 400V NF 60947-2  Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1  Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1  Rated service breaking capacity Icn under 400V AC according IEC60898-1  Rated service breaking capacity Ics AC according IEC 60947-2  Rated ultimate short-circuit breaking capa- city Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capa- city Icu under 240V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  Rating current -10°C  Rating current 5°C  Rating current 10°C  Rating current 10°C  Rating current 15°C  Rating current 15°C  Rating current 25°C	70 A
Breaking capacity on 1 pole for IT 400V NF 60947-2  Breaking capacity on 1 pole for IT 415V NF 60947-2  Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1  Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1  Rated service breaking capacity Ics AC according IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  Rating current -10°C  Rating current -10°C  Rating current 5°C  Rating current 10°C  Rating current 10°C  Rating current 15°C  Rating current 15°C  Rating current 20°C	67.2 A
Breaking capacity on 1 pole for IT 415V NF 60947-2  Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1  Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1  Rated service breaking capacity Ics AC according IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  Rating current -10°C  Rating current -5°C  Rating current 0°C  Rating current 10°C  Rating current 10°C  Rating current 15°C  Rating current 15°C  Rating current 15°C  Rating current 20°C	64.3 A
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1  Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1  Rated service breaking capacity Ics AC according IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  Rating current -20°C  Rating current -10°C  Rating current 5°C  Rating current 5°C  Rating current 10°C  Rating current 10°C  Rating current 10°C  Rating current 20°C  Rating current 20°C  Rating current 20°C	4.5 kA
under 230V AC according IEC60898-1  Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1  Rated service breaking capacity Ics AC according IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  Rating current -15°C  Rating current -10°C  Rating current 0°C  Rating current 5°C  Rating current 10°C  Rating current 15°C  Rating current 15°C  Rating current 5°C  Rating current 5°C  Rating current 5°C  Rating current 20°C  Rating current 20°C  Rating current 20°C  Rating current 20°C	4.5 kA
under 400V AC according IEC60898-1  Rated service breaking capacity Ics AC according IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  Rating current -15°C  Rating current -10°C  Rating current 5°C  Rating current 20°C  Rating current 20°C	15 kA
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city Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Electric current / temperature  Rating current -25°C  Rating current -15°C  Rating current -10°C  Rating current 0°C  Rating current 5°C  Rating current 5°C  Rating current 10°C  Rating current 25°C	50 %
Electric current / temperature  Rating current -25°C  Rating current -20°C  Rating current -15°C  Rating current -10°C  Rating current -5°C  Rating current 5°C  Rating current 5°C  Rating current 5°C  Rating current 5°C  Rating current 20°C  Rating current 20°C	15 kA
Rating current -25°C  Rating current -20°C  Rating current -15°C  Rating current -10°C  Rating current 0°C  Rating current 5°C  Rating current 5°C  Rating current 10°C  Rating current 20°C  Rating current 20°C  Rating current 20°C	15 kA
Rating current -25°C  Rating current -20°C  Rating current -15°C  Rating current -10°C  Rating current 0°C  Rating current 5°C  Rating current 5°C  Rating current 10°C  Rating current 20°C  Rating current 20°C  Rating current 20°C	
Rating current -20°C  Rating current -15°C  Rating current -10°C  Rating current 0°C  Rating current 5°C  Rating current 5°C  Rating current 10°C  Rating current 10°C  Rating current 20°C  Rating current 20°C	115 A
Rating current -15°C  Rating current -10°C  Rating current 0°C  Rating current 5°C  Rating current 5°C  Rating current 10°C  Rating current 20°C  Rating current 20°C	112 A
Rating current -10°C  Rating current 0°C  Rating current 5°C  Rating current 10°C  Rating current 10°C  Rating current 20°C  Rating current 20°C	109 A
Rating current -5°C  Rating current 0°C  Rating current 5°C  Rating current 10°C  Rating current 15°C  Rating current 20°C  Rating current 20°C	106 A
Rating current 0°C  Rating current 5°C  Rating current 10°C  Rating current 15°C  Rating current 20°C  Rating current 25°C	102 A
Rating current 5°C  Rating current 10°C  Rating current 15°C  Rating current 20°C  Rating current 25°C	99.2 A
Rating current 10°C  Rating current 15°C  Rating current 20°C  Rating current 25°C	96 A
Rating current 15°C  Rating current 20°C  Rating current 25°C	92.8 A
Rating current 20°C  Rating current 25°C	89.6 A
Rating current 25°C	
	86.4 A
	86.4 A 83.2 A
Rating current 35°C	
Rating current 40°C	83.2 A
Rating current 45°C	83.2 A 80 A
Rating current 50°C	83.2 A 80 A 77.6 A
Rating current 55°C	83.2 A 80 A 77.6 A 75.1 A
Rating current 60°C	83.2 A 80 A 77.6 A 75.1 A 72.6 A
Subject to technical modifications	83.2 A 80 A 77.6 A 75.1 A 72.6 A 70 A

Current correction factors	
Correction factor of rating current for 2 devices placed side-by-side	1
Correction factor of rating current for 3 devices placed side-by-side	0.95
Correction factor of rating current for 4 and 5 devices placed side-by-side	2.0
Correction factor of rating current for 6 devices placed side-by-side	0.85
Dimensions	
Depth of installed product	70 mm
Height of installed product	90 mm
Width of installed product	27 mm
Frequency	
Frequency	50 to 60 Hz
Power	
Total power loss under IN	6.18 W
Power loss per pole at In	6.18 W
Endurance	
Electric endurance in number of cycles	4000
Number of mechanical operations	20000
Installation, mounting	
Type of top connection for modular devices	with screw
Tightening torque	3,5 to 5Nm
Type of top rail clip for modular devices	Plastic
Type of bottom rail clip for modular devices Type of Bottom Connection for modular	plastic
devices	with screw
Top removability for modular devices	Yes
Bottom removability for modular devices	Yes
Connection	
Connection cross-section at output with screw, for flexible conductor	1 / 50 mm <sup>2</sup>
Connection cross-section at output with screw, for massive conductor	1 / 70 mm <sup>2</sup>
Connection cross-sect. flexible conductor	50mm
Connection cross-sect. rigid cable	70mm
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 70 mm <sup>-</sup>
Connection cross-section of the access with screws, with flexible conductor	1 / 50 mm <sup>-</sup>
Connection cross-section of input and output with screws, for massive conductors	1 / 70 mm <sup>-</sup>
Connection cross section of access and exit with screws, for flexible conductor	1 / 50 mm <sup>-</sup>

Standards		
Standard text	EN 60898-1 ; IEC 60947-2	
Safety		
REACH conform	Yes	
RoHS conform	Yes	
Halogen free	No	
Use conditions		
Degree of pollution according to IEC 60664 / IEC 60947-2	3	
Altitude	2000 m	
Air humidity protection	for all climates	
temperatur		
Temperature of calibration	30 °C	
Identification		

PD

Aesthetic for B.G. Protection devices