



NSN150

## MCB 1P 15kA D-50A 1M

**Technical properties** 

Number of poles       1         Type of pole       1         Fixing mode       Din-Ra         Curve       Image: Curve contract of the contrant of the contract of the contract of the contrant of the contra	Neutral position	without neutra
Type of pole       1         Fixing mode       Din-Ra         Curve       Image: Curve         Functions       Image: Concurrently switching N-neutral       N         Configuration       N         Number of modules       Connectivity         Connection alignement for modular devices       Aligned termine         Bottom connection alignement for modular devices       Aligned termine         Main electrical features       Aligned termine         Rated operational voltage Ue       240 / 415         Type of supply voltage       A         Frequency       50/60 H         Voltage       A         Rated insulation voltage (Ue min)       12         Electric current       50         Rated arry in threshold voltage (Ue min)       12         Electric current       50         Rated service breaking capacity Ics AC according IEC 6089e-1       7.5 k         mi/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       10 / 30 I         mi/maxi threshold value of the DC mergal operation       1.03 / 1.45 I         Breaking capacity on 1 pole for IT 4000 NF       1.13 / 1.45 I	Number of protected poles	1
Fixing mode       Din-Ra         Curve       Functions         Functions       N         Configuration       N         Number of modules       Connectivity         Top connection alignement for modular devices       Aligned termine         Bottom connection alignement for modular devices       Aligned termine         Main electrical features       Rated operational voltage Ue       240 / 415         Type of supply voltage       A         Frequency       50/60 H         Voltage       A         Rated insulation voltage (Ue min)       12         Electric current       50         Rated service breaking capacity Ics AC according IEC 6089e-1       7.5 k         min/maxit threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       10 / 30 I         min/maxit threshold value of the DC menal operation       10.3 / 1.45 I         magnetic operation       1.0 / 30 I         min/maxit threshold value of the DC thermal operation       10.3 / 1.45 I         Breaking capacity on 1 pole for IT 4000 NF       1.13 / 1.45 I	Number of poles	11
Curve Functions Concurrently switching N-neutral N Configuration Number of modules Connectivity Top connection alignement for modular devices Aligned termina Bottom connection alignement for modular devices Aligned termina Main electrical features Rated operational voltage Ue 240 / 415 Type of supply voltage Airequency 50/60 H Voltage Rated insulation voltage S00 Rated insulation voltage Electric current Rated current S0 Rated service breaking capacity lcs AC according IEC 60898-1 7.5 k min/maxi threshold value of the AC thermal operation 1.13 / 1.45 I Magnetic regulating current IC 10 / 30 I min/maxi threshold value of the DC magnetic operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF	Type of pole	1 F
Functions         Concurrently switching N-neutral       N         Configuration       N         Number of modules       Connectivity         Top connection alignement for modular devices       Aligned terminal devices         Bottom connection alignement for modular devices       Aligned terminal devices         Main electrical features       Rated operational voltage Ue       240 / 415         Type of supply voltage       A         Frequency       50/60 H         Voltage       A         Rated insulation voltage       500         Rated insulation voltage (Ue min)       12         Electric current       50         Rated current       50         Rated service breaking capacity Ics AC according IC6 6098-1       7.5 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating current       10 / 30 I         min/maxi threshold value of the DC magnetic operation       10 / 30 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Backing capacity on 1 pole for IT 400V NF       1.13 / 1.45 I	Fixing mode	Din-Rai
Concurrently switching N-neutral N Configuration Number of modules Connectivity Top connection alignement for modular devices Aligned termine Bottom connection alignement for modular devices Aligned termine Main electrical features Rated operational voltage Ue 240 / 415 Type of supply voltage A Frequency 50/60 H Voltage Rated insulation voltage S00 Rated insulation voltage (Ue min) 12 Electric current Rated current 50 Rated service breaking capacity Ics AC according IEC 60898-1 7.5 k min/maxi threshold value of the DC magnetic operation L13 / 1.45 I Magnetic regulating current 10 / 14.4 I min/maxi threshold value of the DC magnetic operation L13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF	Curve	Γ
Configuration         Number of modules         Connectivity         Top connection alignement for modular devices         Bottom connection alignement for modular devices         Aligned termine         Bottom connection alignement for modular devices         Main electrical features         Rated operational voltage Ue         Type of supply voltage         A         Frequency         Voltage         Rated insulation voltage (Ue min)         12         Electric current         Rated current         So         Rated service breaking capacity Ics AC according IEC 6098-1         7.5 k         min/maxi threshold value of the AC thermal operation         num/maxi threshold value of the DC magnetic operation         10 / 14.4 1         min/maxi threshold value of the DC thermal operation         num/maxi threshold value of the DC thermal operation <td>Functions</td> <td></td>	Functions	
Number of modules Connectivity Top connection alignement for modular devices Aligned termina Bottom connection alignement for modular devices Aligned termina Main electrical features Rated operational voltage Ue 240 / 415 Type of supply voltage A Frequency 50/60 H Voltage Rated insulation voltage S000 Rated insulation voltage S000 Rated insulation voltage (Ue min) 12 Electric current Rated current 50 Rated service breaking capacity Ics AC according IEC 60898-1 7.5 k min/maxi threshold value of the AC thermal operation 1.13 / 1.45 I Magnetic regulating current 10 / 14.4 I min/maxi threshold value of the DC magnetic operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF	Concurrently switching N-neutral	No
Connectivity         Top connection alignement for modular devices       Aligned terminal devices         Bottom connection alignement for modular devices       Aligned terminal devices         Main electrical features       Aligned terminal devices         Rated operational voltage Ue       240 / 415         Type of supply voltage       A         Frequency       50/60 H         Voltage       A         Rated insulation voltage       5000         Rated insulation voltage       6000 T         Minimum threshold voltage (Ue min)       12         Electric current       50         Rated service breaking capacity Ics AC according IEC 60898-1       7.5 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       10 / 14.4 I         min/maxi threshold value of the DC magnetic operation       10 / 30 I         min/maxi threshold value of the DC thermal operation       10 / 30 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF       10	Configuration	
Top connection alignement for modular devices       Aligned terminal devices         Bottom connection alignement for modular devices       Aligned terminal devices         Main electrical features       Aligned terminal devices         Rated operational voltage Ue       240 / 415         Type of supply voltage       A         Frequency       50/60 H         Voltage       S000         Rated insulation voltage (Ue min)       12         Electric current       S0         Rated current       50         Rated current       50         Rated service breaking capacity Ics AC according IEC 60898-1       7.5 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       10 / 14.4 I         min/maxi threshold value of the DC magnetic operation       10 / 30 I         min/maxi threshold value of the DC magnetic operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF       So I / 30 I	Number of modules	:
devices       Aligned terminal         Bottom connection alignement for modular       Aligned terminal         devices       Aligned terminal         Main electrical features       240 / 415         Type of supply voltage       A         Frequency       50/60 H         Voltage       240 / 415         Rated insulation voltage       6000 P         Rated insulation voltage       6000 P         Minimum threshold voltage (Ue min)       12         Electric current       50         Rated service breaking capacity Ics AC according IEC 60898-1       7.5 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       10 / 14.4 I         min/maxi threshold value of the DC magnetic operation       10 / 30 I         min/maxi threshold value of the DC thermal operation       10 / 30 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF       10 / 14.4 I	Connectivity	
devices       Aligned terminal         Main electrical features       240 / 415         Type of supply voltage       A         Frequency       50/60 H         Voltage       200 / 415         Rated insulation voltage       50/00 H         Rated insulation voltage       5000 H         Rated insulation voltage       6000 H         Minimum threshold voltage (Ue min)       12         Electric current       50         Rated current       50         Rated service breaking capacity Ics AC according IEC 60898-1       7.5 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       10 / 30 I         min/maxi threshold value of the DC thermal operation       10 / 30 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF       10 / 30 I	Top connection alignement for modular devices	Aligned termina
Rated operational voltage Ue       240 / 415         Type of supply voltage       A         Frequency       50/60 H         Voltage       8         Rated insulation voltage       500         Rated inpulse withstand voltage       6000         Minimum threshold voltage (Ue min)       12         Electric current       50         Rated service breaking capacity Ics AC according IEC 60898-1       7.5 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       10 / 14.4 I         min/maxi threshold value of the DC magnetic operation       10 / 30 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF       10	Bottom connection alignement for modular devices	Aligned termina
Type of supply voltage       A         Frequency       50/60 H         Voltage       8         Rated insulation voltage       500         Rated impulse withstand voltage       6000         Minimum threshold voltage (Ue min)       12         Electric current       12         Rated service breaking capacity Ics AC according IEC 60898-1       7.5 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       10 / 14.4 I         min/maxi threshold value of the DC magnetic operation       10 / 30 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF       1.13 / 1.45 I	Main electrical features	
Frequency       50/60 H         Voltage       Rated insulation voltage       5000         Rated insulation voltage       6000 T         Rated impulse withstand voltage       6000 T         Minimum threshold voltage (Ue min)       12         Electric current       12         Rated current       50         Rated service breaking capacity Ics AC according IEC 60898-1       7.5 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       10 / 14.4 I         min/maxi threshold value of the DC magnetic operation       10 / 30 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF       1.13 / 1.45 I	Rated operational voltage Ue	240 / 415
Voltage         Rated insulation voltage       500         Rated impulse withstand voltage       6000         Minimum threshold voltage (Ue min)       12         Electric current       12         Rated current       50         Rated service breaking capacity Ics AC according IEC 60898-1       7.5 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       10 / 14.4 I         min/maxi threshold value of the DC magnetic operation       10 / 30 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF       1	Type of supply voltage	AG
Rated insulation voltage       500         Rated impulse withstand voltage       6000         Minimum threshold voltage (Ue min)       12         Electric current       12         Rated current       50         Rated service breaking capacity Ics AC according IEC 60898-1       7.5 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       10 / 14.4 I         min/maxi threshold value of the DC magnetic operation       10 / 30 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF       10	Frequency	50/60 H:
Rated impulse withstand voltage6000Minimum threshold voltage (Ue min)12Electric current12Rated current50Rated service breaking capacity Ics AC according IEC 60898-17.5 kmin/maxi threshold value of the AC thermal operation1.13 / 1.45 IMagnetic regulating currrent10 / 14.4 Imin/maxi threshold value of the DC magnetic operation10 / 30 Imin/maxi threshold value of the DC thermal 	Voltage	
Minimum threshold voltage (Ue min)       12         Electric current       50         Rated current       50         Rated service breaking capacity Ics AC according IEC 60898-1       7.5 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 l         Magnetic regulating currrent       10 / 14.4 l         min/maxi threshold value of the DC magnetic operation       10 / 30 l         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 l         Breaking capacity on 1 pole for IT 400V NF       1.13 / 1.45 l	Rated insulation voltage	500 \
Electric current       50         Rated current       50         Rated service breaking capacity Ics AC according IEC 60898-1       7.5 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       10 / 14.4 I         min/maxi threshold value of the DC magnetic operation       10 / 30 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF       10	Rated impulse withstand voltage	6000 \
Rated current       50         Rated service breaking capacity Ics AC       7.5 k         according IEC 60898-1       7.5 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 l         Magnetic regulating currrent       10 / 14.4 l         min/maxi threshold value of the DC magnetic operation       10 / 30 l         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 l         Breaking capacity on 1 pole for IT 400V NF       1.13 / 1.45 l	Minimum threshold voltage (Ue min)	12 '
Rated service breaking capacity Ics AC         according IEC 60898-1       7.5 k         min/maxi threshold value of the AC thermal       0         operation       1.13 / 1.45 l         Magnetic regulating currrent       10 / 14.4 l         min/maxi threshold value of the DC       10 / 30 l         min/maxi threshold value of the DC thermal       10 / 30 l         min/maxi threshold value of the DC thermal       1.13 / 1.45 l         Breaking capacity on 1 pole for IT 400V NF       10	Electric current	
according IEC 60898-17.5 kmin/maxi threshold value of the AC thermal operation1.13 / 1.45 IMagnetic regulating currrent10 / 14.4 Imin/maxi threshold value of the DC magnetic operation10 / 30 Imin/maxi threshold value of the DC thermal operation1.13 / 1.45 IBreaking capacity on 1 pole for IT 400V NF1.13 / 1.45 I	Rated current	50 /
operation1.13 / 1.45 IMagnetic regulating currrent10 / 14.4 Imin/maxi threshold value of the DC magnetic operation10 / 30 Imin/maxi threshold value of the DC thermal operation1.13 / 1.45 IBreaking capacity on 1 pole for IT 400V NF	Rated service breaking capacity Ics AC according IEC 60898-1	7.5 k/
min/maxi threshold value of the DC magnetic operation 10 / 30 I min/maxi threshold value of the DC thermal operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF	min/maxi threshold value of the AC thermal operation	1.13 / 1.45 lı
magnetic operation 10 / 30 I min/maxi threshold value of the DC thermal operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF	Magnetic regulating currrent	10 / 14.4 II
operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF	min/maxi threshold value of the DC magnetic operation	10 / 30 li
	min/maxi threshold value of the DC thermal operation	1.13 / 1.45
	Breaking capacity on 1 pole for IT 400V NF 60947-2	3 k/

	10 kA
Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1	10 kA
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	0.9
Correction factor of rating current for 6 devices placed side-by-side	0.85
Correction factor of magnetic tripping with 100 Hz	1.1
Correction factor of magnetic tripping with 200 Hz	1.2
Correction factor of magnetic tripping with 400 Hz	1.5
Correction factor of magnetic tripping with 60 Hz	]
Dimensions	
Depth of installed product	70 mm
Height of installed product	83 mn
Frequency	
Frequency	50 to 60 Hz
Power	
Power Total power loss under IN	50 to 60 Hz 4.7 W
Power Total power loss under IN Power loss per pole at In	4.7 W
Power Total power loss under IN Power loss per pole at In Endurance	4.7 W 4.7 W
Power Total power loss under IN Power loss per pole at In	4.7 W 4.7 W 4000
Power Total power loss under IN Power loss per pole at In Endurance Electric endurance in number of cycles	4.7 W 4.7 W 4000
Power Total power loss under IN Power loss per pole at In Endurance Electric endurance in number of cycles Number of mechanical operations	4.7 W 4.7 W 4000 20000
Power         Total power loss under IN         Power loss per pole at In         Endurance         Electric endurance in number of cycles         Number of mechanical operations         Installation, mounting	4.7 W 4.7 W 4000 20000 with screw
Power         Total power loss under IN         Power loss per pole at In         Endurance         Electric endurance in number of cycles         Number of mechanical operations         Installation, mounting         Type of top connection for modular devices	4.7 W 4.7 W 4000 20000 with screw 2,8Nm
Power         Total power loss under IN         Power loss per pole at In         Endurance         Electric endurance in number of cycles         Number of mechanical operations         Installation, mounting         Type of top connection for modular devices         Tightening torque	4.7 W 4.7 W 4000 20000 with screw 2,8Nm NA
Power         Total power loss under IN         Power loss per pole at In         Endurance         Electric endurance in number of cycles         Number of mechanical operations         Installation, mounting         Type of top connection for modular devices         Tightening torque         Type of top rail clip for modular devices	4.7 W 4.7 W 4000 20000 with screv 2,8Nm N/ plastic
Power         Total power loss under IN         Power loss per pole at In         Endurance         Electric endurance in number of cycles         Number of mechanical operations         Installation, mounting         Type of top connection for modular devices         Tightening torque         Type of top rail clip for modular devices         Type of bottom rail clip for modular devices         Type of Bottom Connection for modular	4.7 W 4.7 W 4000 20000 with screw 2,8Nm NA plastic Blconnect
Power         Total power loss under IN         Power loss per pole at In         Endurance         Electric endurance in number of cycles         Number of mechanical operations         Installation, mounting         Type of top connection for modular devices         Tightening torque         Type of top rail clip for modular devices         Type of bottom rail clip for modular devices         Type of Bottom Connection for modular devices	4.7 W 4.7 W 4.7 W 4000 20000 with screw 2,8Nm N/ plastic Blconnect Yes
Power         Total power loss under IN         Power loss per pole at In         Endurance         Electric endurance in number of cycles         Number of mechanical operations         Installation, mounting         Type of top connection for modular devices         Tightening torque         Type of top rail clip for modular devices         Type of bottom rail clip for modular devices         Type of Bottom Connection for modular devices         Top removability for modular devices	4.7 W 4.7 W 4.7 W 4000 20000 with screw 2,8Nm N/ plastic Blconnect Yes
Power         Total power loss under IN         Power loss per pole at In         Endurance         Electric endurance in number of cycles         Number of mechanical operations         Installation, mounting         Type of top connection for modular devices         Tightening torque         Type of top rail clip for modular devices         Type of bottom rail clip for modular devices         Type of Bottom Connection for modular devices         Top removability for modular devices         Bottom removability for modular devices	4.7 W 4.7 W 4000 20000 with screw 2,8Nm NA plastic Blconnect Yes
Power         Total power loss under IN         Power loss per pole at In         Endurance         Electric endurance in number of cycles         Number of mechanical operations         Installation, mounting         Type of top connection for modular devices         Tightening torque         Type of top rail clip for modular devices         Type of bottom rail clip for modular devices         Type of Bottom Connection for modular devices         Top removability for modular devices         Bottom removability for modular devices         Connection         Connection cross-section of input and	

With transparent product label holder	Yes
Standards	
European directive WEEE	concerned
Safety	
Protection index IP	IP20
Use conditions	
Operating temperature	-2570 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
A left	2000 n
Altitude	
Air humidity protection	for all climate