#### DATASHEET - DE11-348D5FN-N20N



Speed starters, three-phase power supply connection, three-phase motor connection at 400 V, 8, 5 A and 4 kW / 5 HP, with integrated EMC filter



Part no.DE11-348D5FN-N20NCatalog No.180667Eaton Catalog No.DE11-348D5FN-N20N

# Technical data

SkadardsSpecification or general requirements: IECR 19800-3 Strip requirements: IECR 19800-3<	General			
Production quality Par. <td< td=""><td>Standards</td><td></td><td></td><td>EMC requirements: IEC/EN 61800-3</td></td<>	Standards			EMC requirements: IEC/EN 61800-3
Elimatic proofing $\mu_{w}$ $\eta_{w}$ $\eta_{$	Certifications			CE, UL, cUL, RCM
Antional temperature     Image: Constraint (SD % overload)	Production quality			RoHS, ISO 9001
operation 198 % overlaad)8°C0 - 60Storag o8°C40 - 70Radia interference level	Climatic proofing	ρ <sub>w</sub>	%	< 95%, average relative humidity (RH), non-condensing, non-corrosive
Storage     Storage     40 - 1/0       Radio interference losel     Radio interference loses (EMC)     Radio interference lose	Ambient temperature			
Radio interference lawal Image: Participation of the second of the sec	operation (150 % overload)	9	°C	-10 - +60
Badia interference class (EMC) C2, C3, depending on the motor cable length, the connected laad, and ambient conducts. External radia interference suppression titlers loptional may be meressiny.   Environment (EMC) m C2, C3, depending on the motor cable length, the connected laad, and ambient conducts. External radia interference suppression titlers loptional may be meressiny.   Machanic rabin length m C2, C3, depending on the motor cable length, the connected laad, and ambient conducts. External radia interference suppression titlers loptional may be meressiny.   Machanic rabin length m C2, C3, depending on the motor cable length, the connected laad, and ambient conducts. External radia interference suppression titlers loptional may be meressiny.   Machanic rabin length m C2, C3, depending on the motor cable length, the connected laad, and ambient conducts. External radia interference suppression titlers loptional may be meressiny.   Machanic rabin length maximum motor cable length, the connected laad, and ambient construction.   Mather connected length maximum motor cable length. the connected laad, and ambient construction.   Mather connected length maximum motor cable length. the connected laad, and ambient construction.   Mather connected length maximum motor cable length. the connected laad, and ambient construction.   Mather connected length maximum motor cable length. the connected laad, and ambient construction.   Mather connected length Maximum connected langth. the connected laad, and ambient construction.   Math	Storage	9	°C	-40 - +70
Environment (EMC)     rounditions. External radio interference suppression filters (optional) may be necessary.       maximum motor cable length     I     max     Ix and 2nd environments as per EN 61308-3       Mechanical shock resistance     I     IX and 2nd environments as per EN 61308-3       Vibration     I     IX     IX       Mechanical shock resistance     IX     IX     IX       Vibration     IX     IX     IX     IX       Athade     IX     IX     IX     IX     IX       Degree of Protection     IX     IX     IX     IX     IX       Protection saginst direct contact     IX     IX     IX     IX     IX       Mains voltage (Sty60h2)     IX     IX     IX     IX     IX     IX       Supply frequency     IX     IX     IX     IX     IX     IX       Frequency range     IX     IX     IX     IX     IX     IX       Overload corrent (IS0% overload)     IX     IX     IX     IX     IX     IX     IX     IX <t< td=""><td>Radio interference level</td><td></td><td></td><td></td></t<>	Radio interference level			
maximum motor cable length     I     n     C2 ± 10 m       Machanical shock resistance     0     0     15 11 m/s, EN 80088-2/7)       Vibration     15 11 m/s, EN 80088-2/7)     EN 8008-5-1       Attude     0     00 m above sea level above abov	Radio interference class (EMC)			conditions. External radio interference suppression filters (optional) may be
Indecide for the status of the stat	Environment (EMC)			1st and 2nd environments as per EN 61800-3
Vitration     Image: Second s	maximum motor cable length	I	m	
Altitude n n 0<000 m above sea level Above 1000 m 1% deraining for every 100 m Above 1000 m 1% deraining for every 100 m   Degree of Protection IP20/NEMA 0   Protection against direct contact BGV A3 (VBG4, finger- and back-of-hand proof)   Main circuit U BGV A3 (VBG4, finger- and back-of-hand proof)   Mains voltage (50/60Hz) U N Aga 00 m   Mains voltage (50/60Hz) U <sub>LN</sub> V 300 (-10%) - 480 (+10%)   Input current (150% overload) I <sub>LN</sub> A 10   Supply frequency I <sub>LN</sub> K 50/60   Frequency range I <sub>LN</sub> K 50/60   Mains witch-on frequency I <sub>LN</sub> K 50/60   Power section Maximum of one time every 30 seconds I   Overload current (150% overload) I <sub>L</sub> A 1275   max. starting current (150% overload) I <sub>L</sub> M 200   Note about max. starting current I <sub>L</sub> M 200   Output Frequency I <sub>2</sub> HZ 00/40 (-3, -3) pase   Output Frequency I <sub>2</sub> HZ 00/40 (-3, -3) pase   Output Frequency I <sub>2</sub> HZ 00/40 (-3, -3) pase   Output Frequency I <sub>2</sub> HZ 00/40 (-3, -3) pase   S	Mechanical shock resistance		g	15 (11 m/s, EN 60068-2-27)
Degree of Protection Feast and Above 1000m. 1% derating for every 100 m max. 2000m. 1% derating for every 100 m BGV A3 (VB64, finger- and back-of-hand proof)   Mains rotage U BGV A3 (VB64, finger- and back-of-hand proof)   Mains voltage fob/00h20 U Mov AC, 3-phase 80 V AC, 3-phase 80 V AC, 3-phase   Mains voltage fob/00h20 U V 30 (-10%) - 480 (+10%)   Input current (150% overload) U V 30 (-10%) - 480 (+10%)   Supply frequency f <sub>1</sub> /N A 1   Frequency range f <sub>1</sub> /N Hz 50/80   Mains switch- on frequency f <sub>1</sub> /N Hz 50/80   Power section f <sub>1</sub> /N Hz 50/80   Overload current (150% overload) f <sub>1</sub> /N A 12/75   Note about max. starting current f <sub>1</sub> /N A 12/75   Output Frequency f <sub>2</sub> /N Hz 6-50/80 (max. 300)   Switching frequency f <sub>2</sub> /N Hz 6-50/80 (max. 300)   Switching frequency f <sub>2</sub> /N Hz 6-50/80 (max. 300)   Switching frequency f <sub>2</sub> /N Hz 6-50/80 (max. 300)   Switching frequency f <sub>2</sub> /N <t< td=""><td>Vibration</td><td></td><td></td><td>EN 61800-5-1</td></t<>	Vibration			EN 61800-5-1
Protection against direct contact BeV A3 (VBG4, finger- and back-of-hand proof)   Main circuit   Supply Image: Supply   Rated operational voltage Ue Supply   Rated operational voltage Ue Supply   Mains voltage (50/60Hz) ULN V 380 (10%) - 480 (+10%)   Input current (150% overload) LN A 10   Supply frequency Frequency range Frequency Frequency   Mains switch- on frequency Frequency IL A   Overload current (150% overload) IL A 200   Overload current (160% overload) IL A 200   Note about max. starting current Uz Vz 450   Output Frequency Fu Fu Fu   Output Frequency Fu Fu Fu   Output Frequency Fu Fu Fu   Switching frequency Fu Fu Fu   Output Frequency Fu Fu Fu   Switching frequency Fu Fu Fu   Output Frequency Fu Fu Fu   Switching frequency Fu Fu Fu   Output Frequency Fu Fu Fu   <	Altitude		m	Above 1000 m: 1% derating for every 100 m
Main circuit   Supply   Image: Supply Supp	Degree of Protection			IP20/NEMA 0
Supply Image: Supply Image: Supply Image: Supply Supply   Rated operational voltage Ue Ve 400 V AC, 3-phase 400 V AC, 3-phase   Mains voltage (50/60Hz) ULN V 380 (-10%) - 480 (-10%)   Input current (150% overload) ILN A 0   Supply frequency fLN Hz 50/60   Frequency range fLN Hz 50/60   Mains switch-on frequency fLN HZ 50/60   Power section fLN HZ 50/60   Overload current (150% overload) IL A 12.75   Max starting current IL A 12.75   Output voltage with Ve U2 10 11.875 seconds every 600 seconds   Output voltage with Ve U2 10 VAC, 3-phase   Output voltage with Ve IL A 12.75   Output voltage with Ve Ve 400 VAC, 3-phase   Output voltage with Ve Ve 10 VAC, 3-phase   Switching frequency f2 HZ 00 VAC, 3-phase   Switching frequency f2 HZ 0-50/60 (max. 300)   Switching frequency f6 dijustable 4-32 (audible)   Operation Mode Ma HZ 0.03	-			BGV A3 (VBG4, finger- and back-of-hand proof)
Rated operational voltage Ue Ue We We   Mains voltage (50/60H2) ULN V 380 (-10%) - 480 (+10%)   Input current (150% overload) ILN A 10   Supply frequency fLN HZ 50/60   Frequency range fLN HZ 45 - 66   Mains switch-on frequency ILN A 10   Power section ILN HZ 45 - 66   Overload current (150% overload) IL A 12.75   Note about max. starting current ILN A 200   Output voltage with Ve U2 To 1.875 seconds severy 600 seconds   Output voltage with Ve U2 To 2.506 (max. 300)   Output Frequency f2 HZ 0.5060 (max. 300)   Switching frequency f2 HZ 0.5060 (max. 300)   Operation Mode IPWM IPMM Seed control with slip compensation   Operation Mode IPMM IPM Seed control with slip compensation   Prequency resolution (setpoint value) Af HZ NE				
Mains voltage (50/60Hz)   U <sub>L</sub> N   V   380 (-10%) - 480 (+10%)     Input current (150% overload)   I <sub>L</sub> N   A   0     Supply frequency   f <sub>L</sub> N   Hz   50/60     Frequency range   f <sub>L</sub> N   Hz   55 - 56     Mains switch-on frequency   f <sub>L</sub> N   A   Mainum of one time every 30 seconds     Power section   IL   A   12.75     Overload current (High Overload)   IH   %   900     Note about max. starting current   IL   A   12.75     Output voltage with V <sub>e</sub> IL   A   12.75     Output voltage with V <sub>e</sub> IL   A   12.75     Output voltage with V <sub>e</sub> IL   A   400 VA C, 3-phase     Output voltage with V <sub>e</sub> IL   A   400 VA C, 3-phase     Output Frequency   fz   Hz   50/60 (max. 300)     Switching frequency   fz   Hz   6     Operation Mode   IV   U/f control   Speed control with slip compensation     Frequency resolution (setpoint value)   A   A   A   A     Indeed operational current   IN<				
Input current (150% overload) ILN A 0   Supply frequency ILN Hz 50/60   Frequency range ILN Hz 45 - 66   Mains switch-on frequency Hz Maximum of one time every 30 seconds   Power section ILN A 1275   Overload current (150% overload) ILN A 1275   max. starting current (High Overload) ILN % 100 VAC 3-phase   Output voltage with Ve U2 11.875 seconds every 600 seconds   Output voltage with Ve V2 11.875 seconds every 600 seconds   Output voltage with Ve V2 11.875 seconds every 600 seconds   Output voltage with Ve V2 11.875 seconds every 600 seconds   Output voltage with Ve V2 11.875 seconds every 600 seconds   Output voltage with Ve V2 11.875 seconds every 600 seconds   Output Frequency f2 Hz 0.50/60 (max. 300)   Output Frequency f2 Hz 14.315 seconds every 600 seconds   Operation Mode Frequency resolution (setpoint value) f2 Hz 0.50/60 (max. 300)   Frequency resolution (setpoint value) A A A A	Rated operational voltage	U <sub>e</sub>		
Supply frequency Figure of the section Main of one time every 30 seconds   Power section Figure of the section Figure of the section Main of one time every 30 seconds   Power section Figure of the section Figure of the section Main of one time every 30 seconds   Power section Figure of the section Figure of the section Main of one time every 30 seconds   Power section Figure of the section Figure of the section Main of one time every 30 seconds   Power section Figure of the section Figure of the section Main of one time every 30 seconds   Power section Figure of the section Figure of the section Figure of the section   Note about max. starting current Figure of the section Figure of the section Figure of the section   Output voltage with Ve U2 Wait Section Moin of the section of the section of the section   Output Frequency Figure of the section Figure of the section Solot (max. solo)   Operation Mode Figure of the section Section of the section of the section   Frequency resolution (setpoint value) Af Hz Af   Rated operational current Figure of the section Figure of the section	Mains voltage (50/60Hz)	U <sub>LN</sub>	V	380 (-10%) - 480 (+10%)
Frequency range   fLN   Hz   45 - 66     Mains switch-on frequency   Maximum of one time every 30 seconds     Power section   H   Maximum of one time every 30 seconds     Overload current (150% overload)   IL   A     nax. starting current (High Overload)   IL   A     Note about max. starting current   H   %     Output voltage with Ve   U2   400 V AC, 3-phase     Output Frequency   f2   HZ   6400 V AC, 3-phase     Switching frequency   f2   HZ   0-50/60 (max. 300)     Switching frequency   fpWM   KHZ   16     operation Mode   L// Control   Speed control with slip compensation     Frequency resolution (setpoint value)   Af   HZ   0.03     Rated operational current   Af   HZ   10	Input current (150% overload)	I <sub>LN</sub>	А	10
Mains switch-on frequency Maximum of one time every 30 seconds   Power section Maximum of one time every 30 seconds   Overload current (150% overload) IL A 12.75   max. starting current (High Overload) IH % 200   Note about max. starting current IL A 12.75   Output voltage with Ve U2 400 V AC, 3-phase 400 V AC, 3-phase   Output Frequency F2 Hz 0 - 50/60 (max. 300)   Switching frequency FPWM KHZ 16   Operation Mode IV HZ 16   Frequency resolution (setpoint value) Af HZ 0.03	Supply frequency	f <sub>LN</sub>	Hz	50/60
Power section Identify   Overload current (150% overload) IL A 12.75   max. starting current (High Overload) IH % 200   Note about max. starting current IL Max for 1.875 seconds every 600 seconds   Output voltage with Ve U2 400 VAC, 3-phase   Output Frequency f2 Hz 0-50/60 (max. 300)   Switching frequency f2 Hz 0-50/60 (max. 300)   Operation Mode PWM Hz 16   Frequency resolution (setpoint value) Af Hz 0.33   Rated operational current Max Hz Note about max	Frequency range	f <sub>LN</sub>	Hz	45 - 66
Overload current (150% overload)   IL   A   12.75     max. starting current (High Overload)   IH   %   200     Note about max. starting current   IL   %   for 1.875 seconds every 600 seconds     Output voltage with Ve   U2   MOU V AC, 3-phase   400 V AC, 3-phase     Output Frequency   f2   Hz   0-50/60 (max. 300)     Switching frequency   f2WM   KHz   16 adjustable 4 - 32 (audible)     Operation Mode   U/f control Speed control with slip compensation     Frequency resolution (setpoint value)   Af   Hz   0.03     Rated operational current   Image: Mathematical	Mains switch-on frequency			Maximum of one time every 30 seconds
max. starting current (High Overload) H %   Note about max. starting current H %   Output voltage with Ve U2 400 V AC, 3-phase 480 V AC, 3-phase   Output Frequency f2 Hz 0 - 50/60 (max. 300)   Switching frequency fPWM KHz 16 adjustable 4 - 32 (audible)   Operation Mode V/f control Speed control with slip compensation   Frequency resolution (setpoint value) Af Hz 0.03	Power section			
Note about max. starting current Image: Mathematical control con	Overload current (150% overload)	ΙL	А	12.75
Output voltage with Ve U2 400 V AC, 3-phase 480 V AC, 3-phase   Output Frequency f2 Hz 0 - 50/60 (max. 300)   Switching frequency FPWM KHz 16 adjustable 4 - 32 (audible)   Operation Mode V/f control Speed control with slip compensation V/f control Speed control with slip compensation   Frequency resolution (setpoint value) Af Hz 0.03	max. starting current (High Overload)	I <sub>H</sub>	%	200
Output Frequency f2 Hz 0 - 50/60 (max. 300)   Switching frequency fPWM KHz 16 adjustable 4 - 32 (audible)   Operation Mode V/F control Speed control with slip compensation   Frequency resolution (setpoint value) Af Hz   Rated operational current Image: Material Mat	Note about max. starting current			for 1.875 seconds every 600 seconds
Switching frequency fPWM KHz 16 adjustable 4 - 32 (audible)   Operation Mode V/f control speed control with slip compensation   Frequency resolution (setpoint value) Af Hz 0.03   Rated operational current Hz Hz Hz Hz	Output voltage with V <sub>e</sub>	U <sub>2</sub>		
Operation Mode Af Hz U/f control Speed control with slip compensation   Frequency resolution (setpoint value) Af Hz 0.03   Rated operational current Af Hz Af	Output Frequency	f <sub>2</sub>	Hz	0 - 50/60 (max. 300)
Frequency resolution (setpoint value) Δf Hz Speed control with slip compensation   Rated operational current Δf Hz 0.03	Switching frequency	f <sub>PWM</sub>	kHz	
Rated operational current	Operation Mode			
	Frequency resolution (setpoint value)	Δf	Hz	0.03
At 150% overload I <sub>e</sub> A 8.5	Rated operational current			
	At 150% overload	l <sub>e</sub>	А	8.5

Note			Rated operational current at an operating frequency of 16 kHz and an ambient air temperature of +50 $^{\circ}\mathrm{C}$
Maximum leakage current to ground (PE) without motor	I <sub>PE</sub>	mA	< 3.5 AC, < 10 DC
Fitted with			Radio interference suppression filter
Frame size			FS2
Motor feeder			
Note			for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm <sup>-1</sup> at 50 Hz or 1800 min <sup>-1</sup> at 60 Hz
Note			Overload cycle for 60 s every 600 s
Note			at 400 V, 50 Hz
150 % Overload	Р	kW	4
Note			at 440 - 480 V, 60 Hz
150 % Overload	Р	HP	5
Apparent power			
Apparent power at rated operation 400 V	S	kVA	5.89
Apparent power at rated operation 480 V	S	kVA	7.07
Braking function			
Standard braking torque			max. 30 % M <sub>N</sub>
DC braking torque			adjustable to 100 %
Control section			
Reference voltage	Us	v	10 V DC (max. 0.2 mA)
Analog inputs			1, parameterizable, 0 - 10 V DC, 0/4 - 20 mA
Digital inputs			4, parameterizable, 10 - 30 V DC
Relay outputs			1, parameterizable, N/O, 6 A (250 V, AC-1) / 5 A (30 V, DC-1)
Interface/field bus (built-in)			OP-Bus (RS485)/Modbus RTU, CANopen <sup>®</sup>
Assigned switching and protective elements			
Power Wiring			
Safety device (fuse or miniature circuit-breaker)			
IEC (Type B, gG), 150 %			FAZ-B16/3
UL (Class CC or J)		А	15
Mains contactor			
150 % overload (CT/I <sub>H</sub> , at 50 °C)			DILEM
110 % overload (VT/IL, at 40 °C)			DILM7
Main choke			
150 % overload (CT/I <sub>H</sub> , at 50 °C)			DX-LN3-010
Motor feeder			
motor choke			
150 % overload (CT/I <sub>H</sub> , at 50 °C)			DX-LM3-011

## Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	8.5
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	120
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-10
Operating ambient temperature max.		°C	60
			Operation (with 150 % overload)
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

### **Technical data ETIM 6.0**

Low-voltage industrial components (EG000017) / Frequency converter =< 1 kV (EC001857)

Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter / Static frequency converter = < 1 kv (ecl@ss8.1-27-02-31-01 [AKE177011])

Mains voltage	V	380 - 480
Mains frequency		50/60 Hz
Number of phases input		3
Number of phases output		3
Max. output frequency	Hz	300
Max. output voltage	V	500
Rated output current I2N	А	8.5
Max. output at quadratic load at rated output voltage	kW	0.5
Max. output at linear load at rated output voltage	kW	0.5
With control unit		No
Application in industrial area permitted		Yes
Application in domestic- and commercial area permitted		Yes
Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		No
Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
Supporting protocol for MODBUS		Yes
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		No
Supporting protocol for SUCONET		No
Supporting protocol for LON		No
Supporting protocol for PROFINET IO		No
Supporting protocol for PROFINET CBA		No
Supporting protocol for SERCOS		No
Supporting protocol for Foundation Fieldbus		No
Supporting protocol for EtherNet/IP		Yes
Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No

Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		Yes
Number of HW-interfaces industrial Ethernet		0
Number of HW-interfaces PROFINET		0
Number of HW-interfaces RS-232		0
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		1
Number of HW-interfaces serial TTY		0
Number of HW-interfaces USB		0
Number of HW-interfaces parallel		0
Number of HW-interfaces other		0
With optical interface		No
With PC connection		No
Integrated breaking resistance		No
4-quadrant operation possible		No
Type of converter		U converter
Degree of protection (IP)		IP20
Height	mm	230
Width	mm	90
Depth	mm	168
Relative symmetric net frequency tolerance	%	5
Relative symmetric net current tolerance	%	10

### **Approvals**

Product Standards	UL 508C; CSA-C22.2 No. 14; IEC/EN61800-3; IEC/EN61800-5; CE marking
UL File No.	E172143
UL Category Control No.	NMMS, NMMS7
CSA File No.	UL report applies to both US and Canada
North America Certification	UL listed, certified by UL for use in Canada
Specially designed for North America	No
Suitable for	Branch circuits
Max. Voltage Rating	3~ 480 V AC IEC: TN-S UL/CSA: "Y" (Solidly Grounded Wey)
Degree of Protection	IEC: IP20

