DATASHEET - DC1-S27D0FN-A20CE1



Variable frequency drives, 1-/single-phase 230 V, 7.0 A, 0.75 kW, EMC Filters



Part no.DC1-S27D0FN-A20CE1Catalog No.186091Eaton Catalog No.DC1-S27D0FN-A20CE1EL-Nummer4137045(Norway)

Technical data

General			
Standards			Specification for general requirements: IEC/EN 61800-2 EMC requirements: IEC/EN 61800-3 Safety requirements: IEC/EN 61800-5-1
Certifications			CE, UL, cUL, RCM, Ukr SEPRO, EAC
Production quality			RoHS, ISO 9001
Climatic proofing	ρ _w	%	< 95%, average relative humidity (RH), non-condensing, non-corrosive
Ambient temperature			
operation (150 % overload)	9	°C	-10 - +50
Storage	θ	°C	-40 - +60
Radio interference level			
Radio interference class (EMC)			C1 (for conducted emissions only), C2, C3, depending on the motor cable length, the connected load, and ambient conditions. External radio interference suppression filters (optional) may be necessary.
Environment (EMC)			1st and 2nd environments as per EN 61800-3
maximum motor cable length	I	m	C1 ≤ 1 m C2 ≤ 5 m C3 ≤ 25 m
Mounting position			Vertical
Altitude		m	0 - 1000 m above sea level Above 1000 m: 1% derating for every 100 m max. 4000 m
Degree of Protection			IP20/NEMA 0
Protection against direct contact			BGV A3 (VBG4, finger- and back-of-hand proof)
Main circuit			
Supply			
Rated operational voltage	U _e		230 V AC, 1-phase 240 V AC, single-phase
Mains voltage (50/60Hz)	U _{LN}	V	200 (-10%) - 240 (+10%)
Input current (150% overload)	I _{LN}	Α	12.9
System configuration			AC supply systems with earthed center point
Supply frequency	f _{LN}	Hz	50/60
Frequency range	f _{LN}	Hz	48 - 62
Mains switch-on frequency			Maximum of one time every 30 seconds
Power section			
Function			Frequency inverter with internal DC link and IGBT inverter
Overload current (150% overload)	ΙL	А	10.5
max. starting current (High Overload)	I _H	%	175
Note about max. starting current			for 3.75 seconds every 600 seconds
Output voltage with V _e	U ₂		230 V AC, single-phase 240 V AC, single-phase
Output Frequency	f ₂	Hz	0 - 50/60 (max. 500)
Switching frequency	f _{PWM}	kHz	16 adjustable 4 - 32 (audible)
Operation Mode			U/f control Speed control with slip compensation
Frequency resolution (setpoint value)	Δf	Hz	0.1
Rated operational current			
At 150% overload	le	А	7

Power loss Power loss Power loss Efficiency n % % Radio mitor freence suppression filter 7-digital digital gas sensitivy 7-digital digital gas sensitivy Filed with Power loss For Admonter submission filter Noter feeder Power loss For Admonter submission filter Note- Power loss Power loss Power loss Note-				
Het dissipation at rated operational current L _s = 180 % P _y V S Efficiency q % S Maximu leakage current to ground (PE) without motor Ve Rediscinterforce suppression filter 7-digital display assembly Finde with Finde with Rediscinterforce suppression filter 7-digital display assembly Finde with Finde with Rediscinterforce suppression filter 7-digital display assembly Finde with Finde with Rediscinterforce suppression filter 7-digital display assembly Finde with Finde with Rediscinterforce suppression filter 7-digital display assembly Note Rediscinterforce suppression filter 7-digital display assembly Rediscinterforce suppression filter 7-digital display assembly Note Rediscinterforce suppression filter 7-digital display assembly Rediscinterforce suppression filter 7-digital display assembly Note Note Rediscinterforce suppression filter 7-digital display assembly Rediscinterforce suppression filter 7-digital display assembly Note Note Rediscinterforce suppression filter 7-digital display assembly Rediscinterforce suppression filter 7-digital display assembly Note Note Rediscinter 7-digital display assembly Rediscinter 7-digital display assembly Note Note Rediscinter 7-digital display assembly Rediscinter 7-digital display assembly <	Note			Rated operational current at an operating frequency of 16 kHz and an ambient air temperature of +50 °C
Efficiency n % 9 Maximum leakage current to ground (PE) without motor NE NA 24 Finder with N S 7-4djoint diskays assembly Finder with Note S S Motor Feeder Note S S Note Note S S S Note S Note S S Note Note S S S Apparent power at rated operation 230 V S Note S Apparent power at rated operation 240 V S Note S Detaking function S S S S Note S Note <	Power loss			
Maximul (akage current to ground (PE) without motor inpace Maximul (akage current to ground (PE) without motor inpace Relia interformers symphy assombly as	Heat dissipation at rated operational current $\rm I_e$ =150 %	P _V	w	37.5
Filted with Radio interforence suppression filter Frame size Frame size Noter Frame size Note Frame size Note Frame size settor Note Frame settor Stat capacitor Frame settor Stat capacitor Stat capacitor Apparent power Stat capacitor Apparent power Stat capacitor Apparent power at rated operation 240 V Stat capacitor Analog inputs Stat capacitor Analog inputs	Efficiency	η	%	95
index index index index index index index index index </td <td>Maximum leakage current to ground (PE) without motor</td> <td>I_{PE}</td> <td>mA</td> <td>2.49</td>	Maximum leakage current to ground (PE) without motor	I _{PE}	mA	2.49
Mote feeder Ander feeder For AC motors with internal and external ventilation with 5000 Hz without addition start capacitor Note at20 v.50 Hz Note at20 v.50 Hz 150 % Overload P W Note at20 v.50 Hz 150 % Overload P W Note at20 v.50 Hz 150 % Overload P W Note at20 v.50 Hz 150 % Overload P W Note at20 v.50 Hz 150 % Overload P N maximum parmissible cable length P N Apparent power N Screened, with motor choke: 150 Apparent power N Screened, with motor choke: 100 Apparent power at rated operation 230 V S K/A Apparent power at rated operation 240 V S K/A Apparent power at rated operation 240 V N N Apparent power at rated operation 240 V N N Analog outputs N N N Di taking true N	Fitted with			
Note For AC motors with internal and external ventilation with 5060 Hz without addition start capacity circle for 80 severy 600 s Note 230 V, 50 Hz 150 % Overload P KW Note 230 V, 50 Hz 150 % Overload P KW Note 120 V, 50 Hz 150 % Overload P HP maximum permissible cable length I screened, with motor choke: 100 unscreened, with motor choke: 150 Apparent power F KW 161 Apparent power F KW 161 Apparent power at rated operation 230 V S KW 161 Breking function F F F D Charlos forque F maxinum permissible, of 10 V DC, 04 - 20 mA F Charlos forque F F F F D Charlos forque F F F F Charlos forque F F F F D Charlos forque F F F F Charlos forque F F </td <td>Frame size</td> <td></td> <td></td> <td>FS1</td>	Frame size			FS1
Image: section of the section of th	Motor feeder			
Note at 20 V, 50 Hz 150 % Overload P KW 0,75 Note at 220 - 240 V, 60 Hz at 220 - 240 V, 60 Hz 150 % Overload P HP 1 maximum permissible cable length P HP 1 maximum permissible cable length F Max Screened, with motor choke: 100 unscreened. 75 unscreened.	Note			For AC motors with internal and external ventilation with 50/60 Hz without additiona start capacitor
150 % OverloadPKV 2075Note20 > 240 V, 60 Hzat 20 > 240 V, 60 Hz150 % OverloadPHP1maximum permissible cable lengthPHPscreened: 50maximum permissible cable lengthNScreened: 50Apparent powerPV-Apparent power at rated operation 200 VSKVA1.61Apparent power at rated operation 200 VSKVA1.63Braking functionPD Cbraking torqueV10 VD C (max. 10 mA)Analog inputsN1.9 arameterizable, 0 - 10 V DC, Q/4 - 20 mAAnalog outputsI1.9 arameterizable, 0 - 10 V DC, Q/4 - 20 mADigital inputsI1.9 arameterizable, 0 - 10 V DC, Q/4 - 20 mANatiog toputsI1.9 arameterizable, 0 - 10 V DC, Q/4 - 20 mADigital inputsI1.9 arameterizable, 0 - 10 V DC, Q/4 - 20 mAAnalog outputsI1.9 arameterizable, 0 - 10 V DC, Q/4 - 20 mADigital inputsI1.9 arameterizable, 0 - 10 V DC, Q/4 - 20 mAAnalog outputsI1.9 arameterizable, 0 - 10 V DC, Q/4 - 20 mADigital inputsI0.9 - V DCRelevator bottierinI.9 arameterizable, 0 - 10 V DC, Q/4 - 20 mARelevator bottierinI.9 arameterizable, 0 - 10 V DC, Q/4 - 20 mANote the topologital inputsI.9 arameterizable, 0 - 10 V DC, Q/4 - 20 mARelevator bottierinI.9 arameterizable, 0 - 10 V DC, Q/4 - 20 mARelevator bottierinI.9 arameterizable, 0 - 10 V DC, Q/4 - 20 mA <td>Note</td> <td></td> <td></td> <td>Overload cycle for 60 s every 600 s</td>	Note			Overload cycle for 60 s every 600 s
Note220-240 V, 60 Hz150 % OverloadPHP1150 % OverloadPHP5maximum permissible cable lengthIScreened. with motor choke: 100 unscreened. vith motor choke: 150Apparent powerNScreened. with motor choke: 150Apparent power atted operation 230 VSKAApparent power atted operation 230 VSKABraking functionNSKADe Darking torqueNNScreened. with motor choke: 150Cotrol sectionNNScreened. With motor choke: 150Analog inputsNNAScreened. With motor choke: 150Analog outputsNNScreened. With motor choke: 150Digital inputsNNScreened. With motor choke: 150Digital inputsNNScreened. With motor choke: 150Relevance NotageNNScreened. With motor choke: 150Digital inputsNNScreened. With motor choke: 150Digital inputsNNScreened. With motor choke: 150Relevance NotageNNScreened. With motor choke: 150Digital inputsNNScreened. With motor choke: 150Relevance NotageNNScreened. With motor choke: 150Relevance NotageN<	Note			at 230 V, 50 Hz
150 % OverloadPPPmaximum permissible cable lengthINScreened: 50 screened, with motor choke: 100 unscreened, with motor choke: 100 unscreened, with motor choke: 150Apparent powerPNNApparent power at rated operation 230 VSKVA161Apparent power at rated operation 240 VSKVA188Braking functionPNNND'C braking torqueVNOV (max. 10 mA)NControlV10 VDC (max. 10 mA)NAnalog utputsV10 VDC (max. 10 mA)Ingital inputsVNoremetrizable, AU DCDigital outputsNNN parametrizable, NOV 6, A (250 V, AC-1) / 5 A (30 V, DC-1)Interface//field bus (built-in)I or are trizable, NOV, 6 A (250 V, AC-1) / 5 A (30 V, DC-1)Assigned switching and protective elementsI or are trizable, NOV, 6 A (250 V, AC-1) / 5 A (30 V, DC-1)Power Wring IEC (Type B, 96), 150 %I or an official inputsI or are trizable, NOV, 6 A (250 V, AC-1) / 5 A (30 V, DC-1)IC (Licss CC or J)I or an official inputsI or are trizable, NOV, 6 A (250 V, AC-1) / 5 A (30 V, DC-1)IL (Class CC or J)I or an official inputsI or are trizable, NOV, 6 A (250 V, AC-1) / 5 A (30 V, DC-1)IL (Class CC or J)I or an official inputsI or an official inputsIL (Class CC or J)I or an official inputsI or an official inputsIL (Class CC or J)I or an official inputsI or an official inputsIL (Class CC or J)I or an official inputs </td <td>150 % Overload</td> <td>Р</td> <td>kW</td> <td>0.75</td>	150 % Overload	Р	kW	0.75
maximum permissible cable length Imaximum permissible length	Note			at 220 - 240 V, 60 Hz
Apparent power at rated operation 230 V or Apparent power at rated operation 240 V or Apparent power Appare	150 % Overload	Р	HP	1
Apparent power at rated operation 230 V S KVA 1.61 Apparent power at rated operation 240 V S KVA 1.88 Braking function max. 100% of rated operational current I _e variable max. 100% of rated operational current I _e variable D C braking torque V max. 100% of rated operational current I _e variable Control section V V 10 V DC (max. 10 mA) Analog outputs V Quarameterizable, 0 - 10 V DC, 0/4 - 20 mA Analog outputs V Quarameterizable, 0 - 10 V DC, 0/4 - 20 mA Digital inputs V Quarameterizable, 0 - 10 V DC, 0/4 - 20 mA Digital inputs V Quarameterizable, 0 - 10 V DC, 0/4 - 20 mA Digital inputs V Quarameterizable, 0 - 10 V DC, 0/4 - 20 mA Digital outputs I, parameterizable, 0 - 10 V DC, 0/4 - 20 mA Relay outputs I, parameterizable, 0 - 10 V DC, 0/4 - 20 mA Interface/field bus (built-in) V I, parameterizable, 0 - 10 V DC Assigned switching and protective elements I, parameterizable, N/0, 6 A (250 V, AC-1) / 5 A (30 V, DC-1) Power Wring I Po S IC (Typ	maximum permissible cable length	I	m	screened, with motor choke: 100 unscreened: 75
Apparent power at rated operation 240 V Basking function KVA 1.68 Braking function max. 100% of rated operational current le, variable max. 100% of rated operational current le, variable Control section max. 100% of rated operational current le, variable max. 100% of rated operational current le, variable Analog inputs Us I of V DC (max. 10 mA) max. 100% of rated operational current le, variable Analog outputs Us I operameterizable, 0 - 10 V DC, 0/4 - 20 mA max. 100% of rated operational current le, variable Digital inputs Us I oparameterizable, 0 - 10 V DC, 0/4 - 20 mA max. 100% of rated operational current le, variable Digital outputs I oparameterizable, 0 - 10 V DC, 0/4 - 20 mA max. 100% of rated operational current le, variable Braking duputs I oparameterizable, 0 - 10 V DC, 0/4 - 20 mA max. 100% of rated operational current le, variable Digital outputs I oparameterizable, 0 - 10 V DC, 0/4 - 20 mA max. 100% of rated operational current le, variable Relay outputs I oparameterizable, 0 - 10 V DC, 0/4 - 20 mA max. 100% of rated operational current le, variable Relay outputs I oparameterizable, N/0, 6 A (250 V, AC-1) / 5 A (30 V, DC-1) max. 100% of rated operational current le, variable	Apparent power			
Braking function Braking function Image: Braking function <td>Apparent power at rated operation 230 V</td> <td>S</td> <td>kVA</td> <td>1.61</td>	Apparent power at rated operation 230 V	S	kVA	1.61
DC braking torque Max. 100% of rated operational current l _e , variable Control section Reference voltage Vas IOV DC (max. 10 mA) Analog inputs 2, parameterizable, 0 - 10 V DC, 0/4 - 20 mA Analog outputs 1, parameterizable, 0 - 10 V Digital inputs 4, parameterizable, 0 - 10 V Relay outputs 1, parameterizable, 0 - 10 V Interface/field bus (built-in) Ves 4, parameterizable, 0 - 10 V Assigned switching and protective elements Ves Ves Power Wiring Ves Ves Ves IEC (Type B, gG), 150 % UL (Class CC or J) An 5	Apparent power at rated operation 240 V	S	kVA	1.68
Control section Very Mark	Braking function			
Reference voltage Us V IV DC (max. 10 mA) Analog inputs 2, parameterizable, 0 - 10 V DC, 0/4 - 20 mA Analog outputs Analog outputs 1, parameterizable, 0 - 10 V DC, 0/4 - 20 mA Analog Log Log Log Log Log Log Log Log Log L	DC braking torque			max. 100% of rated operational current l _e , variable
Analog inputsAnalog outputs, parameterizable, 0 - 10 V DC, 0/4 - 20 mAAnalog outputs, parameterizable, 0 - 10 VDigital inputs, parameterizable, 0 - 10 VDigital outputs, parameterizable, 0 - 10 VDigital outputs, parameterizable, 0 - 10 VRelay outputs, parameterizable, 0 - 10 VInterface/field bus (built-in), parameterizable, N/0, 6 A (250 V, AC-1) / 5 A (30 V, DC-1)Assigned switching and protective elements, parameterizable, N/0, 6 A (250 V, AC-1) / 5 A (30 V, DC-1)Power Wiring	Control section			
Analog outputs 1, parameterizable, 0 - 10 V Digital inputs 4, parameterizable, nax. 30 V DC Digital outputs 4, parameterizable, nax. 30 V DC Relay outputs 1, parameterizable, 24 V DC Interface/field bus (built-in) Polsus (RS485)/Modbus RTU, CANopen® Assigned switching and protective elements V Power Wiring FAZ-B16/IN ItC (Type B, gG), 150 % A UL (Class CC or J) A	Reference voltage	Us	V	10 V DC (max. 10 mA)
Digital inputsA parameterizable, max. 30 V DCDigital outputs4, parameterizable, 24 V DCRelay outputs1, parameterizable, N/O, 6 A (250 V, AC-1) / 5 A (30 V, DC-1)Interface/field bus (built-in)0P-Bus (RS485)/Modbus RTU, CANopen®Assigned switching and protective elements0P-Bus (RS485)/Modbus RTU, CANopen®Power Wiring1IEC (Type B, gG), 150 %FAZ-B16/INUL (Class CC or J)AISA	Analog inputs			2, parameterizable, 0 - 10 V DC, 0/4 - 20 mA
Digital outputs 1, parameterizable, 24 V DC Relay outputs 1, parameterizable, 24 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® Assigned switching and protective elements Power Wiring IEC (Type B, gG), 150 % FAZ-B16/1N IUL (Class CC or J) A	Analog outputs			1, parameterizable, 0 - 10 V
Relay outputs 1, parameterizable, N/O, 6 A (250 V, AC-1) / 5 A (30 V, DC-1) Interface/field bus (built-in) 0P-Bus (RS485)/Modbus RTU, CANopen® Assigned switching and protective elements Power Wiring IEC (Type B, gG), 150 % 6 UL (Class CC or J) A	Digital inputs			4, parameterizable, max. 30 V DC
Interface/field bus (built-in) OP-Bus (RS485)/Modbus RTU, CANopen® Assigned switching and protective elements OP-Bus (RS485)/Modbus RTU, CANopen® Power Wiring Factor of the state	Digital outputs			1, parameterizable, 24 V DC
Assigned switching and protective elements Power Wiring Image: Compute the system of	Relay outputs			1, parameterizable, N/O, 6 A (250 V, AC-1) / 5 A (30 V, DC-1)
Power Wiring FAZ-B16/1N IEC (Type B, gG), 150 % A UL (Class CC or J) A	Interface/field bus (built-in)			OP-Bus (RS485)/Modbus RTU, CANopen®
IEC (Type B, gG), 150 % FAZ-B16/1N UL (Class CC or J) A 15	Assigned switching and protective elements			
UL (Class CC or J) A 15	Power Wiring			
	IEC (Type B, gG), 150 %			FAZ-B16/1N
150 % overload (CT/I _H , at 50 °C) DX-LN1-018	UL (Class CC or J)		А	15
	150 % overload (CT/I _H , at 50 °C)			DX-LN1-018

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	7
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	37.5
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-10
Operating ambient temperature max.		°C	50
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.
io.z./ inscriptions	interis die product standald'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 / Stat	tic frequency converte	er / Static frequency converter = < 1 kv (ecl@ss8.1-27-02-31-01 [AKE177011])
Mains voltage	V	200 - 240
Mains frequency		50/60 Hz
Number of phases input		1
Number of phases output		1
Max. output frequency	Hz	500
Max. output voltage	V	250
Rated output current I2N	А	7
Max. output at quadratic load at rated output voltage	kW	0.75
Max. output at linear load at rated output voltage	kW	0.75
With control unit		Yes
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		Yes
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		Yes
Integrated breaking resistance		No
4-quadrant operation possible		No
Type of converter		U converter
Degree of protection (IP)		IP20
Height	mm	184
Width	mm	81
Depth	mm	124
Relative symmetric net frequency tolerance	%	10
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	1~ 240 V AC IEC: TN-S UL/CSA: "Y" (Solidly Grounded Wey)
Degree of Protection	IEC: IP20



