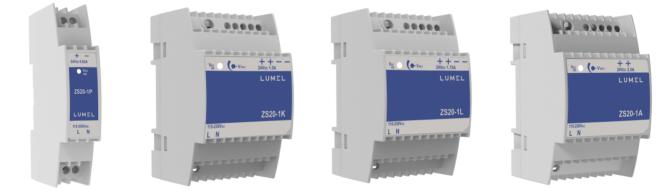


# **ZS20-1A, ZS20-1B, ZS20-1C, ZS20-1K, ZS20-1L, ZS20-1P** POWER SUPPLIES

- Universal AC input range 90-264 V
- Universal DC input range 124-370 V
- High efficiency up to 87%
- Boost power capability 150%
- Hiccup mode
- Build-in "Power good" relay (ZS20-1B, ZS20-1C only)
- Isolation class II
- Suitable for indoor use
- DIN rail and Wall mounting







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#### Power Supplies: One Solution, Many Application

### **Power Supplies Selection Chart**

Model	Size	Description
ZS20-1P	18x90x62 mm	I/P.:- Single-Phase: 115-230 VAC, O/P:- 24VDC / 0.63A, 15W
ZS20-1K	54x90x62 mm	I/P.:- Single-Phase: 115-230 VAC, O/P:- 24VDC / 1.5A, 36W
ZS20-1L	54x90x62 mm	I/P.:- Single-Phase: 115-230 VAC, O/P:- 24VDC / 1.75A, 45W
ZS20-1A	54x90x62 mm	I/P:- Single-Phase: 115-230 VAC, O/P:- 24VDC / 2.50A, 60W
ZS20-1B	55x110x105 mm	I/P.:- Single-Phase: 115-230 VAC, O/P:- 24VDC / 5.0A, 120W
ZS20-1C	55x110x105 mm	I/P.:- Single-Phase: 115-230 VAC, O/P:- 24VDC / 7.5A, 180W

More Flexibility In Input Voltage Wide Range	More Power: "Power Boost"	More Power At Changing Rated Temperature
The power supplies ZS20-1B and ZS20-1C are suitable to wide range input voltage. With a single type it is therefore possible to meet almost all application and consequently improve design and inventory management.	As an example, ZS20-1C is a 24V dc Power supply that features acontinuous duty current of 5A at 60°C and a Power Boost of 150%, equivalent to 7.5A for at least 3min. This features allows the use of a smaller size instrument to power demanding loads such as motors, solenoid valves, lamps and other loads with transient overload behavior which would otherwise required an oversize power supply.	<ul> <li>As an example, ZS20-1C can be the right solution for two design cases in different temperature conditions: <ol> <li>7.5A, 24V dc in continuous duty at 40°C.</li> <li>5A, 24V dc in continuous duty at 60°C + Power Boost 7.5A for at least 3 min.</li> </ol> </li> </ul>

### **Three Modes for Output Protection ON SITE**

#### Hiccup Mode Automatic Restart

This is the default factory setting of all Zs20 units. In case of short-circuiting or overloading, the output current is interrupted. The device tries again to reestablish output voltage and normal condition about every 2 second till the problem is cleared. Manual Reset Manual Restart By Operator

In case of short-circuit or overload, the output current is interrupted. In order to restart the output it is necessary to switch-off the input circuit for about 1 minute.

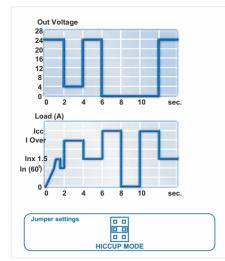
This protection mode is particularly suggested in application where safety procedures require that reset be carried out only be an authorized person.

#### Continuous Output Mode

In case of short –circuit or overload, the output current is kept at high values with near zero voltage. In case of short circuit the current can reach up to 3 times the rated current at 60°C. This protection mode is used to meet the requirements of demanding loads such as motors, solenoid valves, lamps, PLC with highly capacitive input circuits and other loads with marked transient overload behavior.



### Power Supplies: One Solution, Many Application



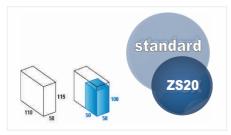
#### "Power Good" Relay For Monitoring The Output Voltage Level

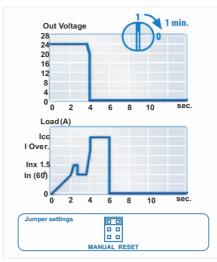
Output voltage is continuously monitored. The units ZS20-1C and ZSC20-1B are equipped with Power Good relay. The NO contact triggers any time the output voltage level goes below 20VDC. This feature is particularly useful in redundant applications.



### Reduced Dimensions & Snapon DIN Rail Bracket

The higher performances obtained with the ZS20 Line, allow almost half dimensions as conventional technology and higher performances. An example is ZS20-1A 60W with maximum current till 6A. In permanent duty at 40°C it can deliver 3A at 24V DC. All ZS20 units feature the new DIN rail mounting bracket, easy to use and safe against heavy loading and vibrations.

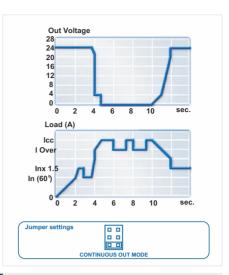




#### Output Circuits Protected By Magneto-thermic Circuit Breakers

Standard output circuit breakers can be triggered quickly and reliably with ZS20 technology, which allows three times the nominal current at 60°C. Defective current paths are selectively disconnected, the defect is limited and the important parts of the system remain in operation. This together with the 50% overload capacity in compliance with EN60204-1 allows to safely manage any overload and short circuit condition.





### Applications In Compliance With The Standard EN 60204-

ZS20 units comply with the standard requirement that an overload of 50% over the nominal current be withstand by the power supply for at least 1 hour to allow the tripping of magneto-thermic switches on the output. These features allows the implementation of "Control of commands and Emergency stops" by means of industrial PC's, PLC, remote I/O, etc. required by the standard. LUMEL supplies a table for the sizing and length of connecting cable and the choice of proper magneto thermic switches.

#### A New Way To Make And Use Power Supplies

Yet another strong proposition by LUMEL for power supplies and power continuity specialists. LUMEL aim is to provide designers and users with a complete range of solutions in power supplies and power continuity products, focusing on both standard special application. Our target is to deliver problem free solutions so that you can safely dedicate your attention to the reset of the automation project. The ZS20 tehnology is the result of these corner stones of our corporate identity. Designed taking into account the pressure to optimal use of space, ZS20 units are very compact in size. The wide input voltage range allows to have just one article for many applications and minimize stock.

ZS20 is based on semi-resonant switching circuit which allows efficiency up to 87% and a very dynamic and robust power supply to a wide range of loads such as PLC, sensors, motors, resistive/inductive loads etc. The ZS20 range conforms with the highest quality standards and guarantees a reliable and durable operation with a MTBF upto 5,00,000 hours and a 3 year warranty.



Power Supplies				
8	Model	ZS20-1P	ZS20-1K	ZS20-1L
Data	Input Type	1-Phase	1-Phase	1-Phase
ă	Rating	24V / 0.63A	24V / 1.5A	24V / 1.75A
		115 / 230 V AC		
	Input Voltage	85 264 VAC	115 / 230 V AC	115 / 230 V AC
	Input Voltage Range AC		85 264 VAC	85 264 VAC
	Input Voltage Range DC	120 370 VDC	120 370 VDC	120 370 VDC
8	Turn on delay after	1 second	1 second	1 second
ŧ	applying mains Voltage			
٥	Frequency	45 65 Hz	45 65 Hz	45 65 Hz
5	Line Regulation	< ± 0.5 %	< ± 0.5 %	< ± 0.5 %
Input Data	Load Regulation	< ±0.5 % (change in load,	< ±0.5 % (change in load,	< ±0.5 % (change in load,
	Loud Regulation	static 10 % 90 %	static 10 % 90 %	static 10 % 90 %
	Input Current	0.3 A (230 VAC), 0.4 A (115 VAC)	0.48 A (230 VAC), 0.88 A (115 VAC)	0.55 A (230 VAC), 0.95 A (115 VAC)
	Inrush Current	≤ 36 A Typically	≤ 36 A Typically	≤ 36 A Typically
	Internal Fuse	T2 A	T4 A	T4 A
	External Fuse	10 A (curve B)	10 A (curve B)	10 A (curve B)
	Output Voltage Range	24 VDC +/-3%	24 VDC +/-3%	24 VDC +/-3%
			24 VDC +/-3% 22 - 27 Vdc	22-27 VDC
	Adjustment Range (Vadj)			
	Start up with Capacitive Load		-	
Output Data	Output Current (@ 40°C)	0.63A @ 40°C	1.5A @ 40°C	1.75A @ 40°C
	Output Current (@ 50°C)	0.63A @ 50°C, 0.48A @ 60°C	1.5A @ 50°C, 1.125A @ 60°C	1.75A @ 50°C, 1.41A @ 60°C
	Power Boost (@ 60°C) for 3 minutes	0.63 A	1.5 A	1.75 A
	Power	15W	36W	45W
	Hold Up Time	≥ 50 msec (230 VAC)	≥ 50 msec (230 VAC)	≥ 30 msec (230 VAC)
	Parallel Connection	No	No	No
	Farallel Connection	140	INO	140
5	Derating	from 50°C 2.5% /°C	from 50 °C 2.5% / °C	from 50°C 2.5% /°C
þ	Efficiency	> 87 % (for 230 VAC and nominal values)	> 87 % (for 230 VAC and nominal values)	> 87 % (for 230 VAC and nominal values)
2	Dissipation Power Load Max (W)	2.24 W	4.4 W	2.24 W
U				
	Output Over Voltage Protection	35 VDC	35 VDC	35 VDC
		short circuit, overload, over voltage,	short circuit, overload, over voltage,	short circuit, overload, over voltage,
	Protection	over temperature	over temperature	over temperature
	Protection Modes	Hiccup	Hiccup	Hiccup
	Ripple and Noise	≤ 150 mVpp (with nominal values)	≤ 150 mVpp (with nominal values)	≤ 150 mVpp (with nominal values)
	Short Circuit Current (Permanent)	Not Available	Not Available	Not Available
	Resistance to reverse feed	max 35 VDC	max 35 VDC	max 35 VDC
p	Relay Power Good	Not Available	Not Available	Not Available
eneral Data	RoHS Compliant	Yes	Yes	Yes
	Isolation Voltage (IN/OUT)	3000 VAC	3000 VAC	3000 VAC
D	Isolation Voltage (IN/PE)	—	—	—
e	Isolation Voltage (OUT/PE)	_	_	_
er	MTBF	> 1 100 000 hrs according to IEC 61709	> 450 000 hrs according to IEC 61709	> 1 100 000 hrs according to IEC 61709
Ō	Safety Approvals	CE	CE	CE
0	Туре	DIN Rail	DIN Rail	DIN Rail
ţi	Position (Recommended)	Vertical	Vertical	Vertical
Mounting	Location	Indoor	Indoor	Indoor
Ŵ	Environment (Preferred)	Dust Protected Panels	Dust Protected Panels	Dust Protected Panels
	· · · ·			
	Norms and Certifications	According to EMC and Low voltage	According to EMC and Low voltage	According to EMC and Low voltage
Compliance	Electrical Safety	<ul> <li>According to IEC/EN 60950 (VDE 0805) &amp;</li> <li>EN 50178 (VDE 0160) for assembling device.</li> <li>Input / Output separation:</li> <li>SELV EN60950-1 and PELV EN 60204-1.</li> <li>Double or reinforced insulation.</li> <li>IEC/ EN 60950 for Installation according</li> </ul>	<ul> <li>According to IEC/EN 60950 (VDE 0805) &amp;</li> <li>EN 50178 (VDE 0160) for assembling device.</li> <li>Input / Output separation:</li> <li>SELV EN60950-1 and PELV EN 60204-1.</li> <li>Double or reinforced insulation.</li> <li>IEC/ EN 60950 for Installation according</li> </ul>	<ul> <li>According to IEC/EN 60950 (VDE 0805) &amp;</li> <li>EN 50178 (VDE 0160) for assembling device.</li> <li>Input / Output separation:</li> <li>SELV EN60950-1 and PELV EN 60204-1.</li> <li>Double or reinforced insulation.</li> <li>IEC/ EN 60950 for Installation according</li> </ul>
		EN 61000-4-2, EN 61000-4-3,	EN 61000-4-2, EN 61000-4-3,	EN 61000-4-2, EN 61000-4-3,
ů			EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,
ပိ	EMC Immunity	EN 61000-4-4, EN 61000-4-5.		
ů	,	EN 61000-4-4, EN 61000-4-5, EN 61000-6-4, EN 61000-3-2	ENI61000 6 4 ENI61000 2 2	EN61000-6-4 EN61000 3 2
ů	EMC Emission	EN61000-6-4, EN61000-3-2	EN61000-6-4, EN61000-3-2	EN61000-6-4, EN61000-3-2
ů	,		EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines
ů	EMC Emission	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of	EN 60204-1 Safety of	EN 60204-1 Safety of
	EMC Emission Standards Confirmity Operating Temperature	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C
	EMC Emission Standards Confirmity Operating Temperature Storage Temperature	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C
	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C,	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C,	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C,
	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity Pollution Degree Environment	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2
	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity Pollution Degree Environment Degree of Protection	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20
	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity Pollution Degree Environment Degree of Protection Class of Protection	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II
	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity Pollution Degree Environment Degree of Protection	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20
External Data Co	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity Pollution Degree Environment Degree of Protection Class of Protection	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II
	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity Pollution Degree Environment Degree of Protection Class of Protection Cooling	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II Free Air Convention	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II Free Air Convention	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II Free Air Convention
	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity Pollution Degree Environment Degree of Protection Class of Protection Cooling Connection Terminal Blocks	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II Free Air Convention Screw Type 2.5 mm	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II Free Air Convention Screw Type 2.5 mm	EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II Free Air Convention Screw Type 2.5 mm



Power Supplies				
8	Model	ZS20-1A	ZS20-1B	ZS20-1C
Data	Input Type	1-Phase	1-Phase	1-Phase
Õ	Rating	24V / 2.5A	24V / 5A	24V / 7.5A
	Input Voltage	115 / 230 V AC	115 230 V AC	115 230 V AC
			85 264 VAC	
	Input Voltage Range AC	85 264 VAC		85 264 VAC
	Input Voltage Range DC	120 370 VDC	125 350 VDC	125 350 VDC
8	Turn on delay after	1 second	2 seconds	1.5 seconds
at	applying mains Voltage	45 45 11	45 45 11	15 (51)
Δ	Frequency	45 65 Hz	45 65 Hz	45 65 Hz
5	Line Regulation	< ± 1 %		$< 0.1$ % (change in input voltage $\pm 10\%$
Input Data	Load Regulation	< ±1 % (change in load,	< 0.1 % (change in input	< 1% (change in load,
-		static 10 % 90 %	voltage ± 10 %)	static 10% 90%
	Input Current	0.8 A (230 VAC), 1.4 A (115 VAC)	1.1 A (230 VAC), 2.8 A (115 VAC)	1.5 A (230 VAC), 2.8 A (115 VAC)
	Inrush Current	≤ 36 A Typically	≤ 36 A Typically	≤ 36 A Typically
	Internal Fuse	T4 A	T4 A	T4 A
	External Fuse	10 A (curve B)	10 A (curve B)	10 A (curve B)
	Output Voltage Range	24 VDC +/-3%	24 VDC +/-3%	24 VDC +/-3%
	Adjustment Range (Vadj)	22 - 27 Vdc	22 - 27 Vdc	22 - 27 VDC
	Start up with Capacitive Load	_	≤ 50.000µF	≤ 50.000µF
	Output Current (@ 40°C)	2.5A @ 40°C	5A @ 40°C	7.5A @ 40°C
	Output Current (@ 50°C)	2.0A @ 50 C, 1.875A @ 60°C	4A @ 50°C, 3A @ 60°C	6.5A @ 50 °C, 5A @ 60°C
	Power Boost (@ 60°C) for 3 minutes	2.5 A	4.5 A	7.5 A
	Power	60W	95 120 W	120 180 W
ō	Hold Up Time	≥ 20 msec (230 VAC)	≥ 20 msec (230 VAC)	≥ 20 msec (230 VAC)
Output Data	Provellal Comparti	No	Ne	
0	Parallel Connection	140	INO	No
5	Derating	from 50 °C 2.5% / °C	from 60 ℃ 2.5% / ℃	from 60°C 2.5% /°C
4	Efficiency	> 87 % (for 230 VAC and nominal values)	> 87 % (for 230 VAC and nominal values)	> 87 % (for 230 VAC and nominal values)
õ	Dissipation Power Load Max (W)	8.9 W	17 W	25 W
	Output Over Voltage Protection	_	_	35 VDC
	Protection	short circuit, overload, over voltage, over temperature	short circuit, overload (EN 60204-1), over voltage, over temperature	short circuit, overload (EN 60204-1), over voltage, over temperature
	Protection Modes	Hiccup	Hiccup	Hiccup
	Ripple and Noise	≤ 150 mVpp (with nominal values)	≤ 120 mVpp (with nominal values)	≤ 120 mVpp (with nominal values)
	Resistance to reverse feed	_		max 35 VDC
	Short Circuit Current (Permanent)	Not Available	Not Available	Not Available
8	Relay Power Good	Not Available	Trigger 30VDC	Trigger 30 VDC
đ	RoHS Compliant	Yes	Yes	Yes
Δ	Isolation Voltage (IN/OUT)	3000 VAC	3000 VAC	3000 VAC
a	Isolation Voltage (IN/PE)	_	1605 VAC	1605 VAC
er	Isolation Voltage (OUT/PE)	_	500 VAC	500 VAC
General Data	MTBF	> 300 000 hrs according to IEC 61709	> 500 000 hrs according to IEC 61709	> 500 000 hrs according to IEC 61709
Q	Safety Approvals	CE	CE	CE
D	Туре	DIN Rail	DIN Rail	DIN Rail
Mounting	Position (Recommended)	Vertical	Vertical	Vertical
n	Location	Indoor	Indoor	Indoor
W	Environment (Preferred)	Dust Protected Panels	Dust Protected Panels	Dust Protected Panels
	· · · · · · · · · · · · · · · · · · ·			
Compliance	Norms and Certifications	According to EMC and Low voltage	According to EMC 89/336/EEC and Low voltage 93/68/EEC	According to EMC 89/336/EEC and Low voltage 93/68/EEC
	Electrical Safety	<ul> <li>According to IEC/EN 60950 (VDE 0805) &amp;</li> <li>EN 50178 (VDE 0160) for assembling device.</li> <li>Input / Output separation:</li> <li>SELV EN60950-1 and PELV EN 60204-1.</li> <li>Double or reinforced insulation.</li> <li>IEC/ EN 60950 for Installation according</li> </ul>	<ul> <li>According to IEC/EN 60950 (VDE 0805) &amp;</li> <li>EN 50178 (VDE 0160) for assembling device.</li> <li>Input / Output separation:</li> <li>SELV EN60950-1 and PELV EN 60204-1.</li> <li>Double or reinforced insulation.</li> <li>IEC/ EN 60950 for Installation according</li> </ul>	<ul> <li>According to IEC/EN 60950 (VDE 0805) &amp;</li> <li>EN 50178 (VDE 0160) for assembling device.         <ul> <li>Input / Output separation:</li> </ul> </li> <li>SELV EN60950-1 and PELV EN 60204-1.         <ul> <li>Double or reinforced insulation.</li> <li>IEC/ EN 60950 for Installation according</li> </ul> </li> </ul>
		EN 61000-4-2, EN 61000-4-3,	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,
	EMC Immunity	EN 61000-4-4, EN 61000-4-5,		
	EMC Immunity EMC Emission	EN61000-6-4, EN61000-3-2	EN61000-6-4, EN61000-3-2	EN61000-6-4, EN61000-3-2
	EMC Emission	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of
		EN61000-6-4, EN61000-3-2	EN61000-6-4, EN61000-3-2	EN61000-6-4, EN61000-3-2
	EMC Emission	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines
ta	EMC Emission Standards Confirmity Operating Temperature	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C
Data	EMC Emission Standards Confirmity Operating Temperature Storage Temperature	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C
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nal Data	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity Pollution Degree Environment	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C 95% at +25°C, 2	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C 95% at +25°C, 2
ernal Data	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity Pollution Degree Environment Degree of Protection	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C 95% at +25°C, 2 IP 20	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C 95% at +25°C, 2 IP 20
xternal Data	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity Pollution Degree Environment Degree of Protection Class of Protection	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 I, with PE connected	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 I, with PE connected
External Data	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity Pollution Degree Environment Degree of Protection Class of Protection Cooling	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II Free Air Convention	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 I, with PE connected Through Grid on housing & Metal caing	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 I, with PE connected Through Grid on housing & Metal caing
External Data	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity Pollution Degree Environment Degree of Protection Class of Protection Cooling Connection Terminal Blocks	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II Free Air Convention Screw Type 2.5 mm	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 I, with PE connected Through Grid on housing & Metal caing Screw Type 2.5 mm	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 I, with PE connected Through Grid on housing & Metal caing Screw Type 2.5 mm
External Data	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity Pollution Degree Environment Degree of Protection Class of Protection Cooling	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II Free Air Convention Screw Type 2.5 mm 3K3	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 I, with PE connected Through Grid on housing & Metal caing Screw Type 2.5 mm 3K3	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 I, with PE connected Through Grid on housing & Metal caing Screw Type 2.5 mm 3K3
External Data	EMC Emission Standards Confirmity Operating Temperature Storage Temperature Operating Humidity Pollution Degree Environment Degree of Protection Class of Protection Cooling Connection Terminal Blocks	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -30 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 II Free Air Convention Screw Type 2.5 mm	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 I, with PE connected Through Grid on housing & Metal caing Screw Type 2.5 mm	EN61000-6-4, EN61000-3-2 EN 60204-1 Safety of Electrical Equipment Machines -25 to +70°C -40 85 °C 95% at +25°C, 2 IP 20 I, with PE connected Through Grid on housing & Metal caing Screw Type 2.5 mm





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