BUCHER automation

Line reactors for the JetMove-3xxx series

Servo amplifiers



Actual product not shown

Description

With 3-phase line filters, the use of line reactors is optional. In addition, they help reduce voltage distortions (THD) in the network while increasing the service life of the servo amplifier. As with line filters, several servo amplifiers can be connected to one line reactor. The following cases mandate the connection of servo amplifiers via a line reactor:

- When using the servo amplifier in applications with disturbance variables according to EN 61000-2-4 environmental class 3 and higher (harsh industrial environment).
- To ensure compliance with EN 61800-3 or IEC 61800-3.

Technical specifications

	JLR34.xxx-UR	JLR34.20-UR	JLR34.44-UR
Mains voltage	3 x 460 V, -25 % +10 %, 50/60 Hz [1]	3 x 460 V, -25 % +10 %, 50/60 Hz [1]	
Overload factor	2.0 x IN for 30 s	2.0 x IN for 3 s	
Ambient temperature	-25 °C ... +45 °C, with derating up to 60 °C (1.3 % per °C)		
Operating altitude	1000 m, up to 2000 m with derating (6 % per 1000 m)		
Relative humidity	15 % ... 95 %, condensation is not permissible		
Storage temperature	-25 °C ... +70 °C		
Degree of protection	IP00		
Short-circuit voltage	U_K 4 % (corresponds to 9.24 V at 400 V) applies to line reactors where IN = 4.0 A ... 32 A [2]; U_K 2 % (corresponds to 4.6 V at 400 V) applies to line reactors where IN = 45 A ... 450 A [3]	U_K 2 % (corresponds to 4.6 V at 400 V)	
Permissible degree of contamination	P2 according to EN 61558-1		
Thermal dimensioning	$I_{RMS} \leq IN$		
UL Recognition	JLR3X.xxx-UR model includes UL recognition for the US and Canada markets	UL recognition for the US and Canada markets	

[1] Where the mains frequency is 60 Hz, the power dissipation increases by approx. 5 to 10%.

[2] Only for servo amplifiers up to 32 A.

[3] Only for servo amplifiers from 45 A.

Technical specifications and JetMove assignment

	JLR34.20-UR	JLR34.44-UR
Optional line reactor	JM-3P10	JM-3P22
Model variant	2	2
Usage	JM-3xxx	JM-3xxx
Certifications	UL	UL
Degree of protection	IP00	IP00
Voltage	3 x AC 460 V, -25 %	3 x AC 460 V, 5 % +10 %, 50/60 Hz
Rated current	20 A	45 A
Overload	40 A	90 A
Conductor/connection	6 mm²	16 mm²
Weight	2.5 kg	5 kg
Inductance	0.735 mH	0.33 mH
Power dissipation	31 W	60 W
Dimensions (H x W x D) in mm	125 x 120 x 75	155 x 151 x 110

Ordering information

Item no.	Designation	Description
60880601_00	JLR34.20-UR	Line reactor JM-3P10, JM-1416/1407/1404
60880602_00	JLR34.44-UR	Line reactor JM-3P22, JM-1432/1416/1407/1404

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Further details and order information are available on request. Specifications are subject to change without notice. Errors and omissions excepted.

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