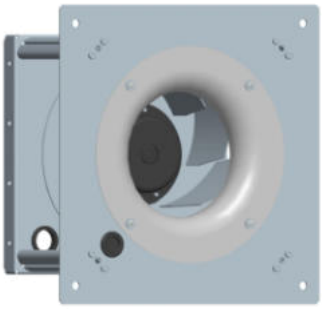
K3G630-AB06-04

EC centrifugal module - Plug fan

backward curved, single inlet

with support plate



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Nominal data

Type	**K3G630-AB06-04**
Motor	**M3G150-IF**

Nominal voltage	[VAC]	400
Nominal voltage range	[VAC]	380 .. 480
Frequency	[Hz]	50/60
Type of data definition		ml
Speed	[min^{-1}]	1200
Power input	[W]	2800
Current draw	[A]	4.2
Min. ambient temperature	[°C]	-25
Max. ambient temperature	[°C]	50

ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

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Technical features

Leackage current	<= 3,5 mA
Size	630 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Electrical leads	Via terminal box
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
Humidity class	F4-1
Insulation class	"F"
Condensate discharge holes	Rotor-side
Bearing motor	Ball bearing
Mass	56 kg
Material of distancing profiles	Aluminium
Material of inlet nozzle	Sheet steel, hot-galvanised
Material of electronics housing	Die-cast aluminium
Material of impeller	Aluminium sheet
Material of mounting plate	Sheet steel, hot-galvanised
Motor protection	Reverse polarity and locked-rotor protection
Product conforming to standard	CE; EN 61800-5-1
Surface of rotor	Coated in black
Number of blades	6
Type of protection	IP 54
Protection class	I
Technical features	- PFC, passive - Control input 0-10 VDC / PWM - Over-temperature protected electronics / motor - Alarm relay - Integrated PID controller - Input for sensor 0-10 V or 4-20 mA - Output for slave 0-10 V - RS485 ebmBUS - Motor current limit - Soft start - Line undervoltage / phase failure detection - Output 10 VDC, max. 10 mA - Output 20 VDC, max. 50 mA
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Approval	CSA C22.2 Nr.77; GOST; UL 1004; VDE

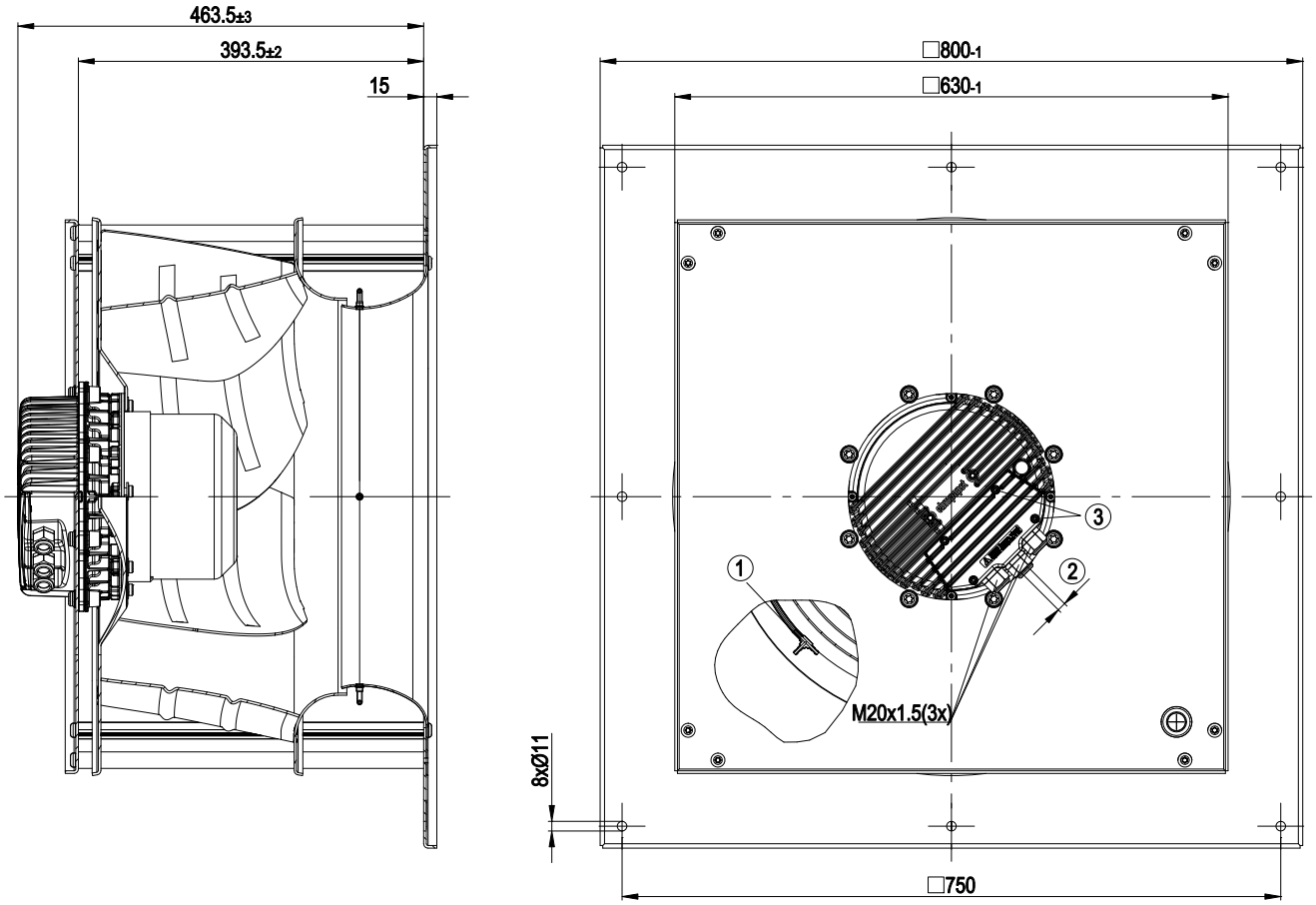
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Product drawing



1	Inlet nozzle with piezometer ring (k-factor: 480)
2	Cable diameter: min. 4 mm, max. 10 mm, tightening torque: 4±0.6 Nm
3	Tightening torque 3.5±0.5 Nm

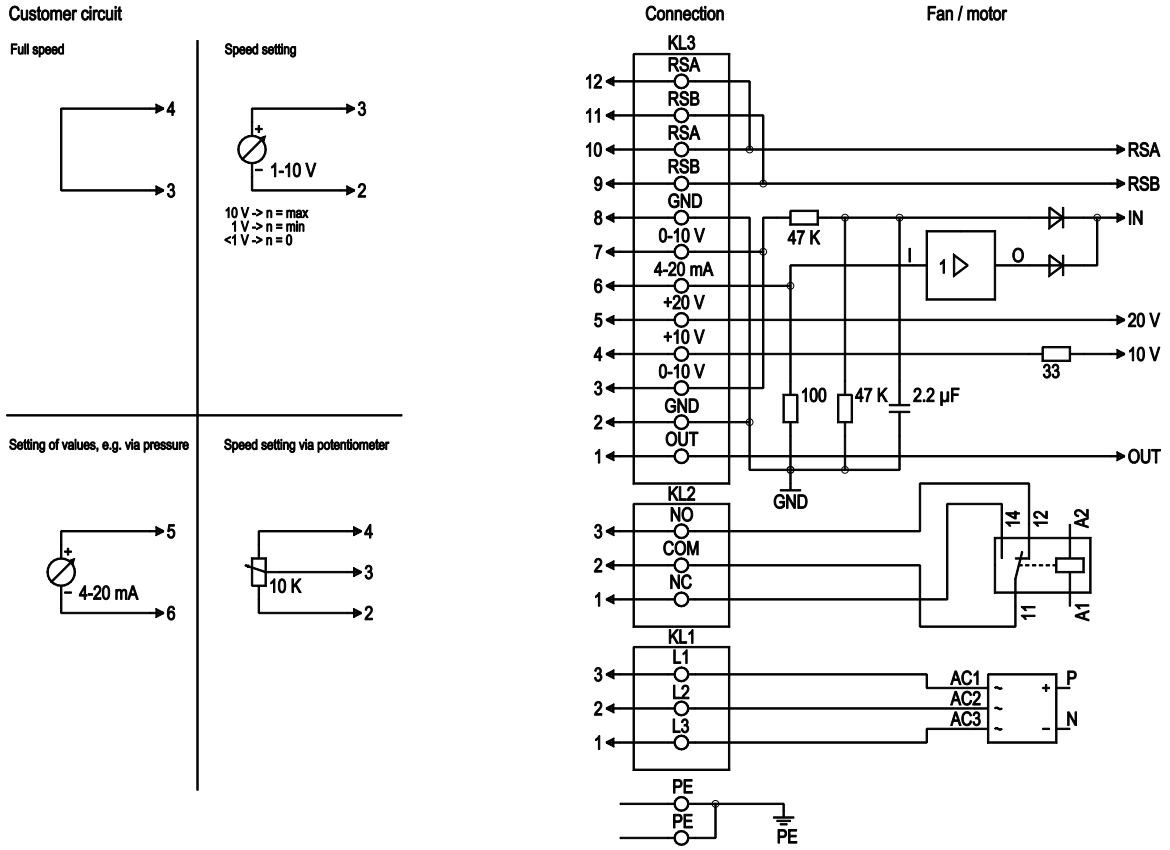
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Connection screen



No.	Pin	Signal	Function / assignment
PE		PE	Protective earth connection
KL1	1, 2, 3	L1, L2, L3	Supply voltage, 50/60 Hz
KL2	1	NC	Floating status message contact, normally closed connection
KL2	2	COM	Floating status message contact, changeover contact, common connection (2 A, max. 250 VAC, min. 10 mA, AC1)
KL2	3	NO	Floating status message contact, normally open connection
KL3	1	OUT	Analog output, 0-10 VDC, max. 3 mA, SELV, output of the current level control coefficient: 1 V equates to 10 % level control coefficient. 10 V equate to 100 % level control coefficient.
KL3	2, 8	GND	Reference mass for control interface, SELV
KL3	3, 7	0-10 V	Use control / actual value input 0-10 VDC, impedance 100 kΩ only as alternative to 4-20 mA input, SELV
KL3	4	+10 V	Voltage output 10 VDC (+/-3 %), max. 10 mA, supply voltage for ext. devices (e.g. potentiometers), SELV
KL3	5	+20 V	Voltage output 20 VDC (+25 %/-10 %), max. 50 mA, supply voltage for ext. devices (e.g. sensors), SELV
KL3	6	4-20 mA	Use control / actual value input 4-20 mA, impedance 100 Ω, only as alternative to 0-10 V input, SELV
KL3	9, 11	RSB	RS485 interface for ebmBus, RSB, SELV
KL3	10, 12	RSA	RS485 interface for ebmBus, RSA, SELV

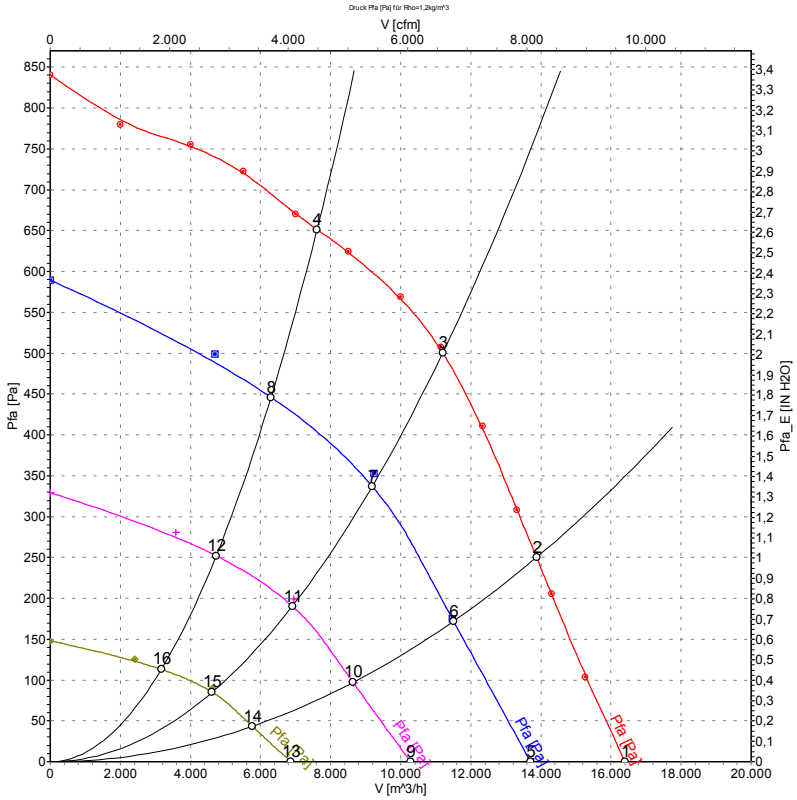
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Charts: Air flow 50 Hz



Measurement: LU-109182
Measurement: LU-116038
Measurement: LU-114211
Measurement: LU-114210

Measured values

	Conn.	U	f	n	P_1	I	LpA_{ss}	LpA_{ds}	LwA_{ss}	LwA_{ds}	$\mathring{V}$	p_{fa}
		[V]	[Hz]	[min^{-1}]	[W]	[A]	[dB(A)]	[dB(A)]	[dB(A)]	[dB(A)]	[m^3/h]	[Pa]
1	Y	400	50	1200	2020	3.07	78	76	85	91	16410	0
2	Y	400	50	1200	2458	3.72	74	73	82	88	13880	250
3	Y	400	50	1200	2800	4.20	72	71	79	86	11200	500
4	Y	400	50	1200	2629	3.98	73	73	81	87	7615	650
5	Y	400	50	1000	1103	1.70	72	70	79	85	13700	0
6	Y	400	50	1000	1315	2.01	69	68	76	82	11510	171
7	Y	400	50	1000	1520	2.32	67	67	74	81	9190	354
8	Y	400	50	1000	1338	2.05	68	68	75	82	6300	447
9	Y	400	50	750	474	0.82	64	62	71	77	10280	0
10	Y	400	50	750	554	0.92	61	60	68	74	8645	96
11	Y	400	50	750	654	1.05	59	59	67	73	6905	200
12	Y	400	50	750	572	0.94	60	60	67	74	4735	253
13	Y	400	50	500	161	0.35	53	52	60	66	6870	0
14	Y	400	50	500	179	0.38	50	49	57	63	5765	43
15	Y	400	50	500	208	0.43	49	49	57	63	4620	90
16	Y	400	50	500	188	0.40	49	49	56	63	3170	113

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