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Drives & Motors Technology | Drives & Motors Services | Automation Solutions

Data sheet

N° :

Date : 8 avr. 2019

Induction motor

4P LSES 100LG 3kW IFT/IE3 B35 380D/400D/415D/690Y-460D 50-60Hz -

Utilisation : Environment Current ; Ambiance Non corrosive ; Finition - ; Zone Non specific ; General applications ; Ambient temperature -16 +40 °C ; Maximum altitude 1000 m.

Motor caracteristics : Aluminium alloy housing ; Cast iron DE endshield ; Cast iron NDE endshield.

Motor definition

Protection type	-	Application	General applications
Generation code	IFT	Main voltage (V)	400
Efficiency class	IE3	Connection	DY
Number of network phases	3	Motor winding (V)	380D/400D/415D/690Y-460D
Number of speed		Rated Frequency (Hz)	50-60
Polarity	4P	Operation position	IM2001(IMB35)
Motor serie	LSES	Index of protection	IP55
Frame size (mm)	100	Index of cooling	IC411
Lenght code	LG	Insulation class	F
HS rated power (kW)	3.000	Finish	-
	-	Moment of inertia J (kg.m2)	0.0115200
Rated speed (min-1)	1460	Motor weight (kg)	31.0
Maximum mechanical speed (min-1)	9900		

Common definitions

Paint shade	RAL6000
Paint system	Ia (1 polyurethane coat 20/30 microns)

Motor mechanical interface

Mounting flange	FF215	Shaft material type	Steel shaft
Drive end shaft type	IEC STANDARD shaft end	Nuance of shaft material	-
Diameter DE shaft (mm)	28j6	Second shaft extension	-
Length DE shaft (mm)	60	Diameter NDE shaft (mm)	-
DE bearing mounting	Locked	Second shaft end length (mm)	-
DE bearing type	DE ball bearing	NDE bearing type	NDE ball bearing
DE bearing	6206	NDE bearing	6205
Code Type de graissage	Vie		

Motor electrical interface

Connection network type	Terminal box	Cable type	-
Connection network material	Composite materials	Cable gland material	Cable gland not supplied, holes tapped with polyamide plugs
Connection network position	A	Main cable glan type	1xM20 ; With plugs
Connection network orientation	up	Principal cable gland position	Right (1)
Connection network relative position	0		

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Moteurs Leroy-Somer SAS. Siège social : Bd Marcellin Leroy, CS 10015, 16915 Angoulême Cedex 9, France. Capital social : 65 800 512 €, RCS Angoulême 338 567 258.
Control Techniques Limited. Registered Office: The Gro, Newtown, Powys SY16 3BE. Registered in England and Wales. Company Reg. No. 01236886.

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Motor options

Vibration level	A (25µm ; 1.6mm/s ; 2.5m/s²)	Cover	Plastic cover
Balancing type	Half-key (H)	Drip proof cover option	-
Impregnation type	< 95% ; -16+40°C (T)	cooling type	-
Winding thermal protection	-	Forced ventilation caracteristics	-
Space heater	-	Encoder type	-
Draining plugs position	6H	Encoder caracteristics	-
Nameplate material	Aluminium nameplate	Screw material	Steel screw
Endshield thermal protection	-	Adaptation for vibration sensor	-
Reinforced insulation system	-		

Motor characteristics (on mains supply)

Main voltage (V)	Rated Frequency (Hz)	HS rated power (kW)	Rated torque (N.m)	Rated speed (min-1)	Rated current (A)	Power factor at 4/4 of the load	Power factor at 3/4 of the load	Power factor at 2/4 of the load	Efficiency at 4/4 (IEC 60 034-2-1) of the load (%)	Efficiency at 3/4 (IEC 60 034-2-1) of the load (%)	Efficiency at 2/4 (IEC 60 034-2-1) of the load (%)
380	50	3.000	19,6	1456.00	6.20	0.83			88.70		
400	50	3.000	19,6	1464	6.0	0,81	0,74	0,61	89.20	89.90	89.90
415	50	3.000	19,6	1466.00	6.00	0.78			89.20		
460	60	-	-	1770.00	5.25	0.79			90.50		

Motor characteristics (on mains supply) 400 V 50 Hz

Starting torque (N.m)	48.02	Id / In	7.21
Average starting torque (N.m)		Id	43.26
Maximum torque (N.m)	63,7	Maximun current (A)	
Unload maximum starting frequency (d/h)	-	No-load current (A)	0.00
Rotor locked time (cold) (s)		Acoustic pressure level (dB(A))	55

Motor characteristics (supplied via drives)

Main voltage (V)	Nominal frequency (Hz)	Pn (kW)	Nn (min-1)	In (A)	Cos Phi	Mn @ f/10 (N.m)	Mn @ f/5 (N.m)	Mn @ f/3 (N.m)	Mn @ f/2 (N.m)	Mn (N.m)	Mn @ fx1.7 (N.m)	Mn @ fx2 (N.m)
400 D	50	3	1460	6.37	0.81	0.0	17.6	19.6	19.6	19.6	11.3	0.0

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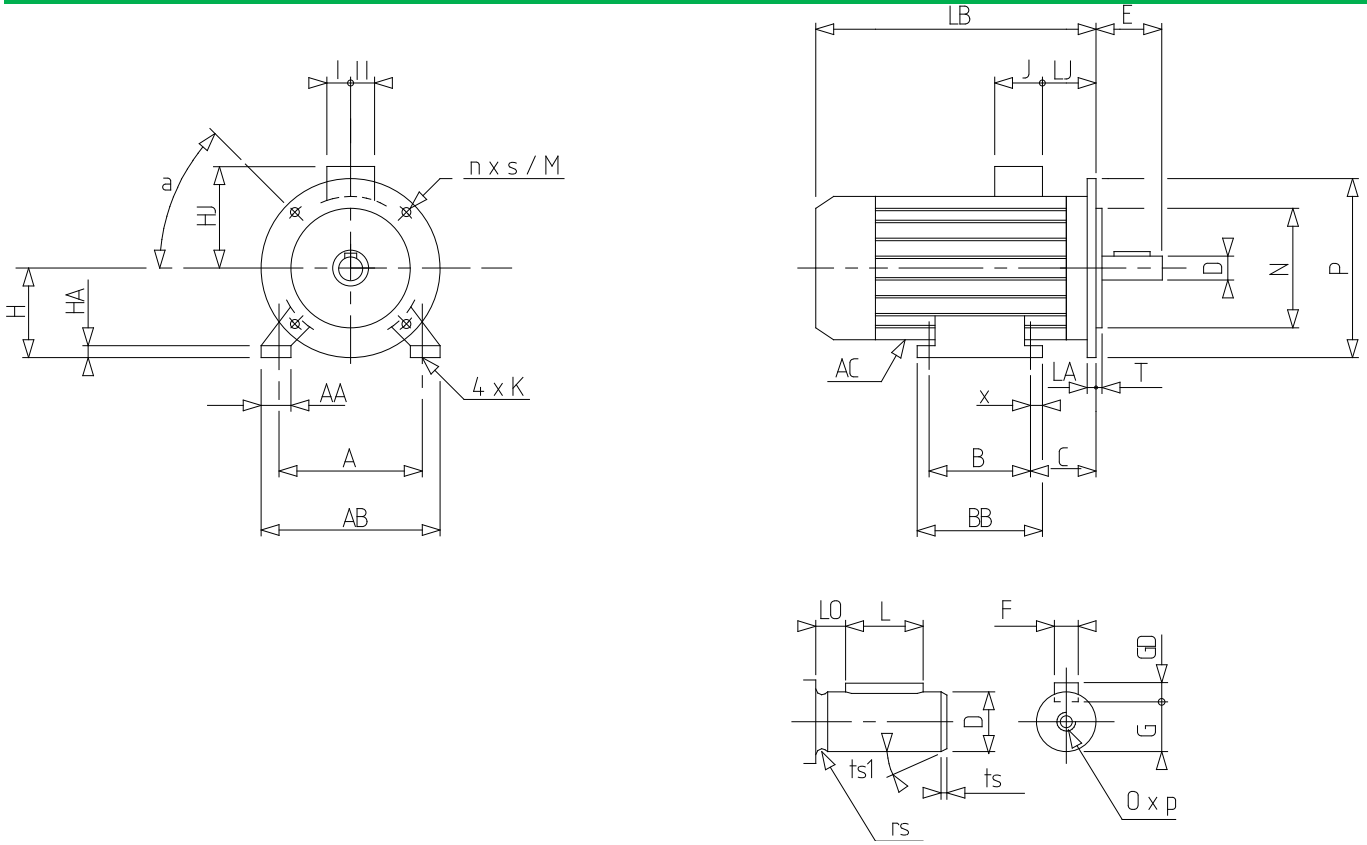

A	160
a	45
AA	40
AB	196
AC	227.00
AD	130
AD1	45
B	140
BB	168
C	63.0
D	28j6
E	60
F	8
G	24
GD	7
H	100
HA	14
HJ	149.0
I	43
II	43
J	86
K	12
L	50
LA	12
LB	305.0
LJ	25.0
LO	6
M	215
N	180
n	4
O	M10
P	250
p	22
rs	0.5
S	14.5
T	4
ts	2
ts1	20
x	13

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