

N° :

Date : 27 févr. 2018

Induction motor
4P LSES 160LUR 15kW IFT/IE3 B5 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 characteristics : Aluminium alloy housing ; Cast iron DE endshield ; Cast iron NDE endshield.



Motor definition		
Protection type	-	Application
Generation code	IFT	Main voltage (V)
Efficiency class	IE3	Connection
Number of network phases	3	Motor winding (V)
Number of speed		Rated Frequency (Hz)
Polarity	4P	Operation position
Motor serie	LSES	Index of protection
Frame size (mm)	160	Index of cooling
Lenght code	LUR	Insulation class
HS rated power (kW)	15.000	Finish
LS rated power (kW)	-	Moment of inertia J (kg.m2)
Rated speed (min-1)	1468	Motor weight (kg)
Maximum mechanical speed (min-1)	5670	

Common definitions	
Paint shade	RAL6000
Paint system	la (1 polyurethane coat 20/30 microns)

Motor mechanical interface		
Mounting flange	FF300	Shaft material type
Drive end shaft type	IEC STANDARD shaft end	Nuance of shaft material
Diameter DE shaft (mm)	42k6	Second shaft extension
Length DE shaft (mm)	110	Diameter NDE shaft (mm)
DE bearing mounting	Locked	Second shaft end length (mm)
DE bearing type	DE ball bearing	NDE bearing type
DE bearing	6309	NDE bearing
Code Type de graissage	Vie	

Motor electrical interface		
Connection network type	Terminal box	Cable type
Connection network material	Aluminium alloy	Cable gland material
		Main cable gland type
Connection network position	A	Principal cable gland position
Connection network orientation	up	
Connection network relative position	0	

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Motor options

Vibration level	A (35µm ; 2.2mm/s ; 3.5m/s²)	Cover	Metal cover
Balancing type	Half-key (H)	Drip proof cover option	-
Impregnation type	< 95% ; -16+40°C (T)	cooling type	-
Winding thermal protection	1xPTC (winding)	Forced ventilation characteristics	-
Space heater	-	Encoder type	-
Draining plugs position	6H	Encoder characteristics	-
Nameplate material	Aluminium nameplate	Screw material	Steel screw
Endshield thermal protection	-	Adaptation for vibration sensor	-
Reinforced winding insulation	-		

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	15.000	97,6	1464.00	28.70	0.86			92.10		
400	50	15.000	97,6	1468	27.7	0.85	0,81	0,71	92.30	93.09	93.18
415	50	15.000	97,6	1472.00	26.80	0.84			92.55		
460	60	-	-	1774.00	24.20	0.83			93.33		

Motor characteristics (on mains supply) 400 V 50 Hz

Starting torque (N.m)	248.88	Id / In	8.35
Average starting torque (N.m)		Id	231.30
Maximum torque (N.m)	336,72	Maximum current (A)	
Unload maximum starting frequency (d/h)	-	No-load current (A)	0.00
Rotor locked time (cold) (s)		Acoustic pressure level (dB(A))	58

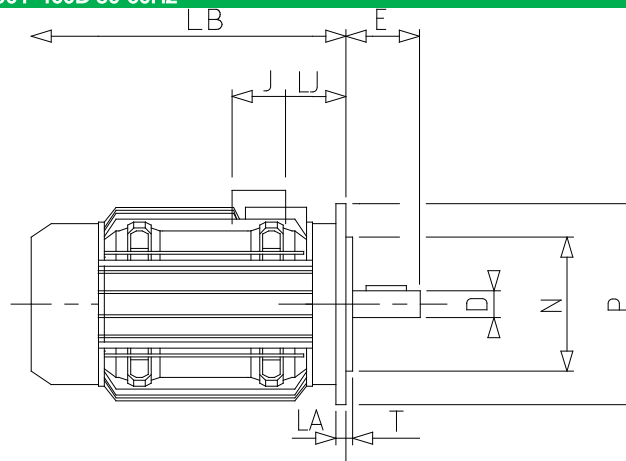
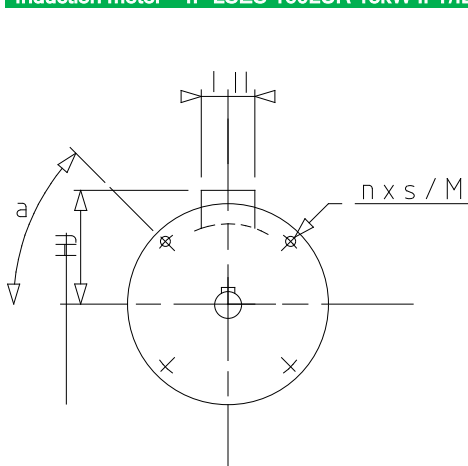
Motor characteristics (supplied via drives)

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	15	1468	29.19	0.85	0.00	82.96	92.72	97.60	97.600	56.09	0.00

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a	45
AC	312.00
AD1	45
D	42k6
E	110
F	12
G	37
GD	8
HJ	235.0
I	92
II	63
J	134
L	100
LA	15
LB	510.0
LJ	44.0
LO	6
M	300
N	250
n	4
O	M16
P	350
p	36
rs	0.8
S	18.5
T	5
ts	1
ts1	45

