

N° :

Date : 12 févr. 2018

Induction motor
2P LSES 90LU 2,2kW IFT/IE3 B3 230D/380Y/400Y/415Y-460Y 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	2P	Operation position
Motor serie	LSES	Index of protection
Frame size (mm)	90	Index of cooling
Length code	LU	Insulation class
HS rated power (kW)	2.200	Finish
LS rated power (kW)	-	Moment of inertia J (kg.m2)
Rated speed (min-1)	2895	Motor weight (kg)
Maximum mechanical speed (min-1)	11700	

Common definitions	
Paint shade	RAL6000
Paint system	C3_la (1 polyurethane coat 20/30 microns)

Motor mechanical interface		
Mounting flange	-	Shaft material type
Drive end shaft type	IEC STANDARD shaft end	Nuance of shaft material
Diameter DE shaft (mm)	24j6	Second shaft extension
Length DE shaft (mm)	50	Diameter NDE shaft (mm)
DE bearing mounting	Located	Second shaft end length (mm)
DE bearing type	DE ball bearing	NDE bearing type
DE bearing	6205	NDE bearing
Code Type de graissage	Vie	

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

N° :

Date : 12 févr. 2018

Induction motor - 2P LSES 90LU 2,2kW IFT/IE3 B3 230D/380Y/400Y/415Y-460Y 50-60Hz -

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 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	2.200	7,25	2875.00	4.40	0.88			85.90		
400	50	2.200	7,25	2895	4.25	0.86	0.8	0.69	86.30	87.50	87.24
415	50	2.200	7,25	2905.00	4.20	0.85			86.69		
460	60	-	-	3505.00	3.75	0.85			87.56		

Motor characteristics (on mains supply) 400 V 50 Hz

Starting torque (N.m)	22.48	Id / In	8.0
Average starting torque (N.m)		Id	34.00
Maximum torque (N.m)	24,65	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))	67

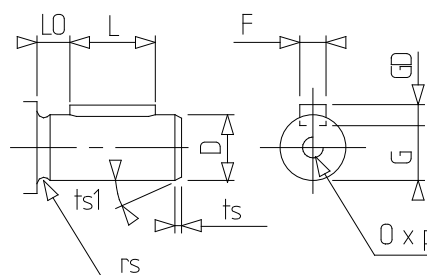
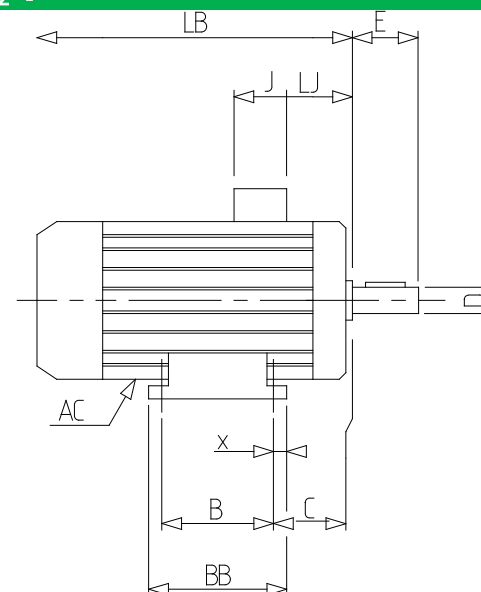
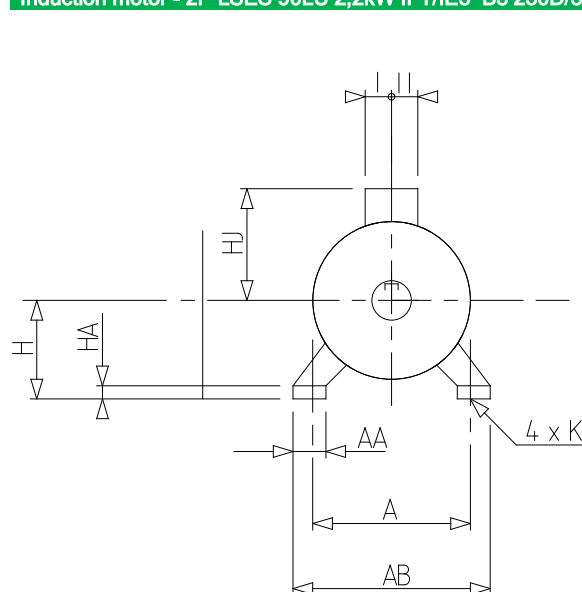
Motor characteristics (supplied via drives)

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 Y	50	2.2	2895	4.5	0.86	0.00	6.16	7.25	7.25	7.250	4.17	0.00
400 D	87	3.83	5014	7.87	0.86	0.00	6.16	7.25	7.25	7.250	0.00	0.00

N° :

Date : 12 févr. 2018

Induction motor - 2P LSES 90LU 2,2kW IFT/IE3 B3 230D/380Y/400Y/415Y-460Y 50-60Hz -



A	140
AA	39
AB	172
AC	189.00
B	125
BB	164
C	56.0
D	24j6
E	50
F	8
G	20
GD	7
H	90
HA	11
HJ	135.0
I	43
II	43
J	86
K	10
L	40
LB	276.0
LJ	26.0
LO	6
O	M8
p	19
rs	0.5
ts	2
ts1	20
x	28