

N° :

Date : 8 févr. 2019

### Induction motor with options

6P LSES 90LU 1,1kW IFT/IE3 B14 230D/380Y/400Y/415Y 50Hz -

1 set of 3 probes PTC (winding) ;

**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	-
Generation code	IFT
Efficiency class	IE3
Number of network phases	3
Number of speed	-
Polarity	6P
Motor serie	LSES
Frame size (mm)	90
Length code	LU
HS rated power (kW)	1.100
Rated speed (min-1)	956
Maximum mechanical speed (min-1)	11700

Application	General applications
Main voltage (V)	400
Connection	DY
Motor winding (V)	230D/380Y/400Y/415Y
Rated Frequency (Hz)	50
Operation position	IM3601(IMB14)
Index of protection	IP55
Index of cooling	IC411
Insulation class	F
Finish	-
Moment of inertia J (kg.m2)	0.0051900
Motor weight (kg)	21.5

### Common definitions

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

### Motor mechanical interface

Mounting flange	FT115
Drive end shaft type	IEC STANDARD shaft end
Diameter DE shaft (mm)	24j6
Length DE shaft (mm)	50
DE bearing mounting	Locked
DE bearing type	DE ball bearing
DE bearing	6205
Code Type de graissage	Vie

Shaft material type	Steel shaft
Nuance of shaft material	-
Second shaft extension	-
Diameter NDE shaft (mm)	-
Second shaft end length (mm)	-
NDE bearing type	NDE ball bearing
NDE bearing	6205

### Motor electrical interface

Connection network type	Terminal box
Connection network material	Composite materials
Connection network position	A
Connection network orientation	up
Connection network relative position	0

Cable type	-
Cable gland material	Cable gland not supplied, holes tapped with polyamide plugs
Main cable gland type	1xM20 ; With plugs
Principal cable gland position	Right (1)

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**Motor options**

Vibration level	A (25µm ; 1.6mm/s ; 2.5m/s <sup>2</sup> )	Cover	Plastic cover
Balancing type	Half-key (H)	Drip proof cover option	-
Impregnation type	< 95% ; -16+40°C (T)	cooling type	-
Winding thermal protection	1 set of 3 probes PTC (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 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	1.100	11	950.00	2.80	0.74			81.30		
400	50	1.100	11	956	2.75	0,7	0,61	0,47	81.90	92.30	80.30
415	50	1.100	11	960.00	2.80	0.67			81.90		
460	60	-	-								

**Motor characteristics (on mains supply) 400 V 50 Hz**

Starting torque (N.m)	25.85	Id / In	4.85
Average starting torque (N.m)		Id	13.34
Maximum torque (N.m)	29,7	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))	56

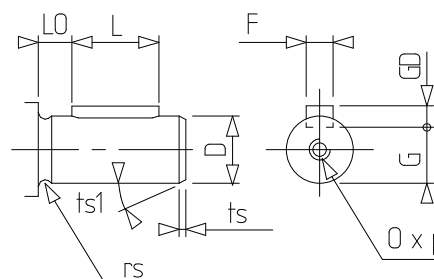
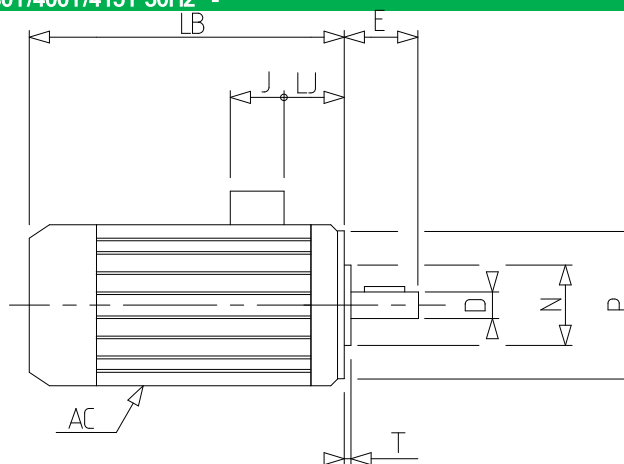
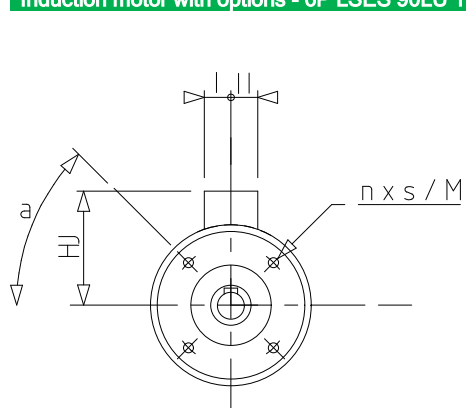
**Motor characteristics (supplied via drives)**

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	1.1	956	2.75	0.71	0.00	11.00	11.00	11.00	11.000	6.32	0.00
400 D	87	1.91	1656	4.74	0.71	0.00	11.00	11.00	11.00	11.000	0.00	0.00

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a	45
AC	189.00
D	24j6
E	50
F	8
G	20
GD	7
HJ	135.0
I	43
II	43
J	86
L	40
LA	0
LB	276.0
LJ	26.0
LO	6
M	115
N	95
n	4
O	M8
P	140
p	19
rs	0.5
S	M8
T	3
ts	2
ts1	20