



N° :

Date : 2 oct. 2017

### Induction motor

4P FLSD 112M 4kW Ex II2G Ex d IIB T4 Gb 230VD/400VY 50Hz B5 -

**Utilisation :** Environment ATEX standard - Gas ; Ambiance Corrosive ; Finition - ; Zone Explosion Proof - Gas ; Type of protection Ex II2G Ex d IIB T4 Gb ; General applications ; Ambient temperature -20 +40 °C ; Maximum altitude 1000 m ; Maximum surface temperature 135°C

**Motor characteristics :** Cast iron housing ; Cast iron DE endshield ; Cast iron NDE endshield.



### Motor definition

Motor definition		Motor definition	
Protection type	Ex II2G Ex d IIB T4 Gb	Application	General applications
Generation code	-	Main voltage (V)	400
Efficiency class	-	Connection	DY
Number of network phases	3	Motor winding (V)	230VD/400VY
Number of speed		Rated Frequency (Hz)	50
Polarity	4P	Operation position	IM3001(IMB5)
Motor serie	FLSD	Index of protection	IP55
Frame size (mm)	112	Index of cooling	IC411
Lenght code	M	Insulation class	F
HS rated power (kW)	4.000	Finish	-
LS rated power (kW)	-	Moment of inertia J (kg.m2)	0.0122600
Rated speed (min-1)	1458	Motor weight (kg)	51.0
Maximum mechanical speed (min-1)			

### Common definitions

Paint shade	RAL2004
Paint system	Ila (1 epoxy base coat 30/40 microns + 1 polyurethane finish 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	Located	Second shaft end length (mm)	-
DE bearing type	DE ball bearing	NDE bearing type	NDE ball bearing
DE bearing	6206	NDE bearing	6206
Code Type de graissage	Vie		

### Motor electrical interface

Connection network type	Cast iron ADF terminal box	Cable type	-
Connection network material	Cast iron	Cable gland material	Brass cable gland
Connection network position	A	Main cable gland type	1xPE ADE 1F ISO M20x1.5 N6
Connection network orientation	up	Principal cable gland position	Right (1)
Connection network relative position	0		

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### Motor options

Vibration level	A (25µm ; 1.6mm/s ; 2.5m/s <sup>2</sup> )	Cover	Metal 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	-	Encoder characteristics	-
Nameplate material	Aluminium nameplate	Screw material	Steel screw
Endshield thermal protection	-	Adaptation for vibration sensor	-
Reinforced winding insulation	-		

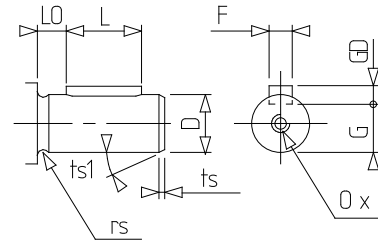
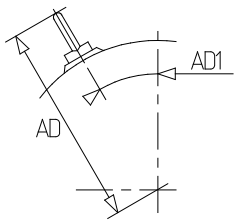
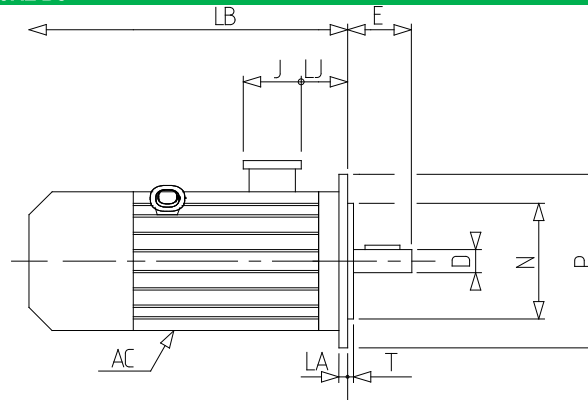
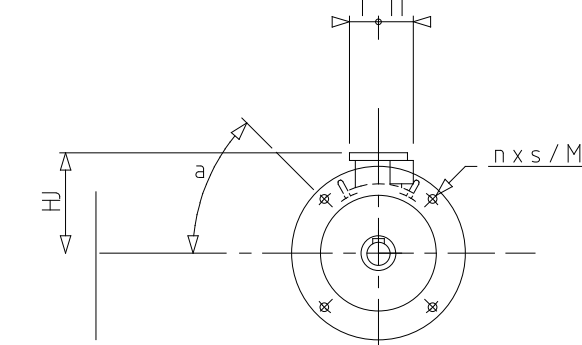
### Motor characteristics (on mains supply)

Rated speed (min-1)	1458	Unload maximum starting frequency (d/h)	-
Rated current (A)	8.5	Acoustic pressure level (dB(A))	52
No-load current (A)	-	Power factor at 4/4 of the load	0,81
Id / In	5.28	Power factor at 3/4 of the load	0,74
Rated torque (N.m)	26,2	Power factor at 2/4 of the load	0,61
Starting torque (N.m)	60.0	Efficiency at 4/4 (IEC 60 034-2-1) of the load (%)	79.50
Maximum torque (N.m)	84	Efficiency at 3/4 (IEC 60 034-2-1) of the load (%)	79.50
Average starting torque (N.m)		Efficiency at 2/4 (IEC 60 034-2-1) of the load (%)	77.00
Rotor locked time (cold) (s)			

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<b>a</b>	45
<b>AC</b>	220.00
<b>D</b>	28j6
<b>E</b>	60
<b>F</b>	8
<b>G</b>	24
<b>GD</b>	7
<b>HJ</b>	225.0
<b>I</b>	80
<b>II</b>	77
<b>J</b>	142
<b>L</b>	50
<b>LA</b>	13
<b>LB</b>	346.0
<b>LJ</b>	33.5
<b>LO</b>	6
<b>M</b>	215
<b>N</b>	180
<b>n</b>	4
<b>O</b>	M10
<b>P</b>	250
<b>p</b>	22
<b>rs</b>	0.5
<b>S</b>	14.5
<b>T</b>	4
<b>ts</b>	2
<b>ts1</b>	20