

THREE-PHASE-ASYNCHRONOUS-MOTOR FCMP 315 S 4 /PHE

IE3AC31S4001

General data

Type of motor	3~
Type designation	FCMP
Frame size	315
Mounting	B35
Frame execution	S
Frame material	Grauguß
Insulationclass	F/B
Terminal box location	top DE
Terminal box orientation	cable gland to the right side
Weight (kg)	939
Rotation Direction	right /left
Vibration level	A
Balancing method	half key
cooling type	IC411
Executed acc. to	IEC 60034-1
noise level	IEC 60034-9

Influential factors

Duty	S1
Ambient temperature (°C)	-20 up to +40
Height of location (m)	1000

Electrical specification

Power 1 50Hz (kW)	110
Power 1 60Hz (kW)	110
Frequency (Hz)	50/60
Voltage 50Hz (V)	400/690
Voltage 60Hz (V)	460/795
Voltage/Frequency tolerance (not valid for range voltage)	+/-10%
Connection	Δ/Y
Poles	4
Efficiency 100% 50Hz (%)	95,4
Efficiency 75% 50Hz (%)	95,4
Efficiency 50% 50Hz (%)	93,5
Efficiency 100% 60Hz (%)	95,8
Efficiency 75% 60Hz (%)	95,8
Efficiency 50% 60Hz (%)	93,9
Power factor	0,89
Starting current factor	6,9
Starting torque factor	2,2
Tilting moment factor	2,2
Rated current 50Hz (A)	186,99/108,40
Rated current 60Hz (A)	161,93/93,92
Eff.Cl.50Hz	IE3

Electrical specification

Eff.Cl.60Hz	IE3
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Mechanical data

Torque (Nm)	705,98/588,52
Rotation speed (1/min)	1488/1785
Bearing DE	6319.C3
Bearing NDE	6319.C3
Mounting of bearing DE	loose bearing
Mounting of bearing NDE	fixed bearing
Bearing lifetime	20000
allow. Radial load (X/2)	15500
allow. Radial load (X0)	21000
allow. Radial load (Xmax)	10000
allow. Axial load B3,B5,B35,B14,B34	7875
allow. Axial load V1,V3,V19,V18	5600
Moment of inertia	3,48

Motor properties

Color	RAL7030
Paint surface	shiny
Protection class	IP55
Cable gland size (cable connection)	2xM63x1,5
Cable gland size (option)	M20x1,5
Cable gland type	Standard
Shaft end	80 x 170
Shaft material	C45
Specification NDE	Plastic fan
Flange	660

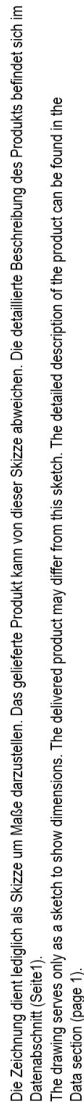
Additional operating points

Voltage operating point 2	460/795
Power operating point 2 (kW)	132
Connection operating point 2	Δ/Y
Frequency operating point 2	60
Efficiency class operating point 2	IE2

Additional option

Protection winding	PTC 150°C
Regreasing device	AS+BS

ac motoren



A	508	AA	120	AB	628	AC	620	AD	527	AG	320	B	406	BB	570	C	216	D	80	E	170	H	315	HA	45	K	28	L	1228	LM	1303	LA	22	LB	1058	LD	427	LL	280	M	600	N	550	P	660	S	8x24	T	6
F	22	G	71	DH	M20x42	EB	160	ED	5	GD	14																																						