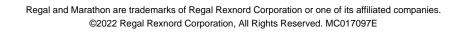
PRODUCT INFORMATION PACKET



Model No: QCA1322A1131GAA001 Catalog No: QCA1322A1131GAA001

TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 315M Frame, TEFC









Nameplate Specifications

Output HP	175 Hp	Output KW	132.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	230.9 A	Speed	1490 rpm		
Service Factor	1	Phase	3		
ficiency 96.4 %		Power Factor	0.86		
Duty	S1	Insulation Class	F		
Frame	315M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319		
JL No		CSA	No		
CE	Yes	IP Code	55		
Number of Speeds	1	Efficiency Class	IE4		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1206 mm	Frame Length	729 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500891

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOMENTRIC TOLERANCE							
	>0~6	±0.1					
LINEAR DIM	>6~30	±0.2					
	>30~120	±0.3					



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







Model No. QCA1322A1131GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	oad	I _A /I _N	T_A/T_N	T_K/T_N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400	Δ	50	132	175	229.8	1490	836.24	IE4	-	96.4	96.4	95.4	0.86	0.82	0.71	7.8	2.5	3.6

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	315M	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +40	°C
Temperature rise (by resistance	ce) 80 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum Die cast	
Bearing type	Anti-friction ball	
DE / NDE bearing	6319 C3 / 6319 C3	
Lubrication method	Regreasable	
Type of grease	CHEVRON SRI-2 or Equivalent	

Degree of protection IP 55 Mounting type IM B35 Cooling method IC 411 Motor weight - approx. 1126 kg Gross weight - approx. 1171 kg Motor inertia 4.3265 kgm² Load inertia Customer to Provide Vibration level 2.8 mm/s Noise level (1 meter distance from motor) 69 dB(A) No. of starts hot/cold/Equally spread 2/3/4 Starting method DOL Type of coupling Direct LR withstand time (hot/cold) 15/30 s Direction of rotation Bi-directional Standard rotation Clockwise form DE
Cooling method IC 411 Motor weight - approx. 1126 kg Gross weight - approx. 1171 kg Motor inertia 4.3265 kgm² Load inertia Customer to Provide Vibration level 2.8 mm/s Noise level (1meter distance from motor) 69 dB(A) No. of starts hot/cold/Equally spread 2/3/4 Starting method DOL Type of coupling Direct LR withstand time (hot/cold) 15/30 s Direction of rotation Bi-directional
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Type of coupling Direct LR withstand time (hot/cold) 15/30 s Direction of rotation Bi-directional
LR withstand time (hot/cold) 15/30 s Direction of rotation Bi-directional
Direction of rotation Bi-directional
Direction of rotation
Standard rotation Clockwise form DE
Paint shade RAL 5014
Accessories
Accessory - 1 PTC 150°C
Accessory - 2
Accessory - 3
Terminal box position TOP
Maximum cable size/conduit size 1R x 3C x 240mm²/2 x M63 x 1.5
Auxiliary terminal box NA

 I_A/I_N - Locked Rotor Current / Rated Current T_A/T_N - Locked Rotor Torque / Rated Torque

 T_K/T_N - Breakdown Torque / Rated Torque

NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1 $\,$

Technical data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate figures.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2004	-	IEC 60034-30-1

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 $[\]ensuremath{^{*}}$ Voltage, Frequency and combined variation are as per IEC60034-1

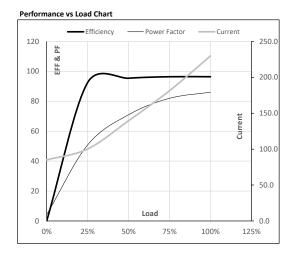




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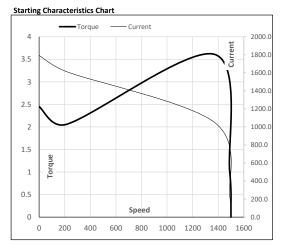
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	132	175	229.8	1490	85.27	836.24	IE4	40	S1	1000	4.3265	1126

Motor Load Data 1/2FL 3/4FL 5/4FL FL Load Point NL 1/4FL Current 85.0 100.2 139.6 181.3 229.8 Torque Nm 0.0 208.0 416.7 626.1 836.2 Speed r/min 1500 1498 1495 1493 1490 Efficiency % 0.0 92.5 95.4 96.4 96.4 50.8 82.0 Power Factor 4.2 71.0 86.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	214	1371	1490	1500
Current	Α	1792.6	1613.3	1050.6	229.8	85.0
Torque	pu	2.5	2.1	3.6	1	0



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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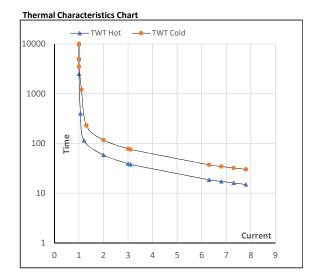




Model No. QCA1322A1131GAA001

Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	132	175	229.8	1490	85.27	836.24	IE4	40	S1	1000	4.3265	1126

Motor Speed	l Torq	ue Data						
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	S	10000	59	39	30	25	20	15
TWT Cold	S	10000	117	78	60	45	40	30
Current	pu	1	2	3	4	5	5.5	7.8



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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