PRODUCT INFORMATION PACKET



Model No: QCA0452A1131GAA001 Catalog No: QCA0452A1131GAA001

TerraMAX® Cast Iron Motor, 60 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 225M Frame, TEFC



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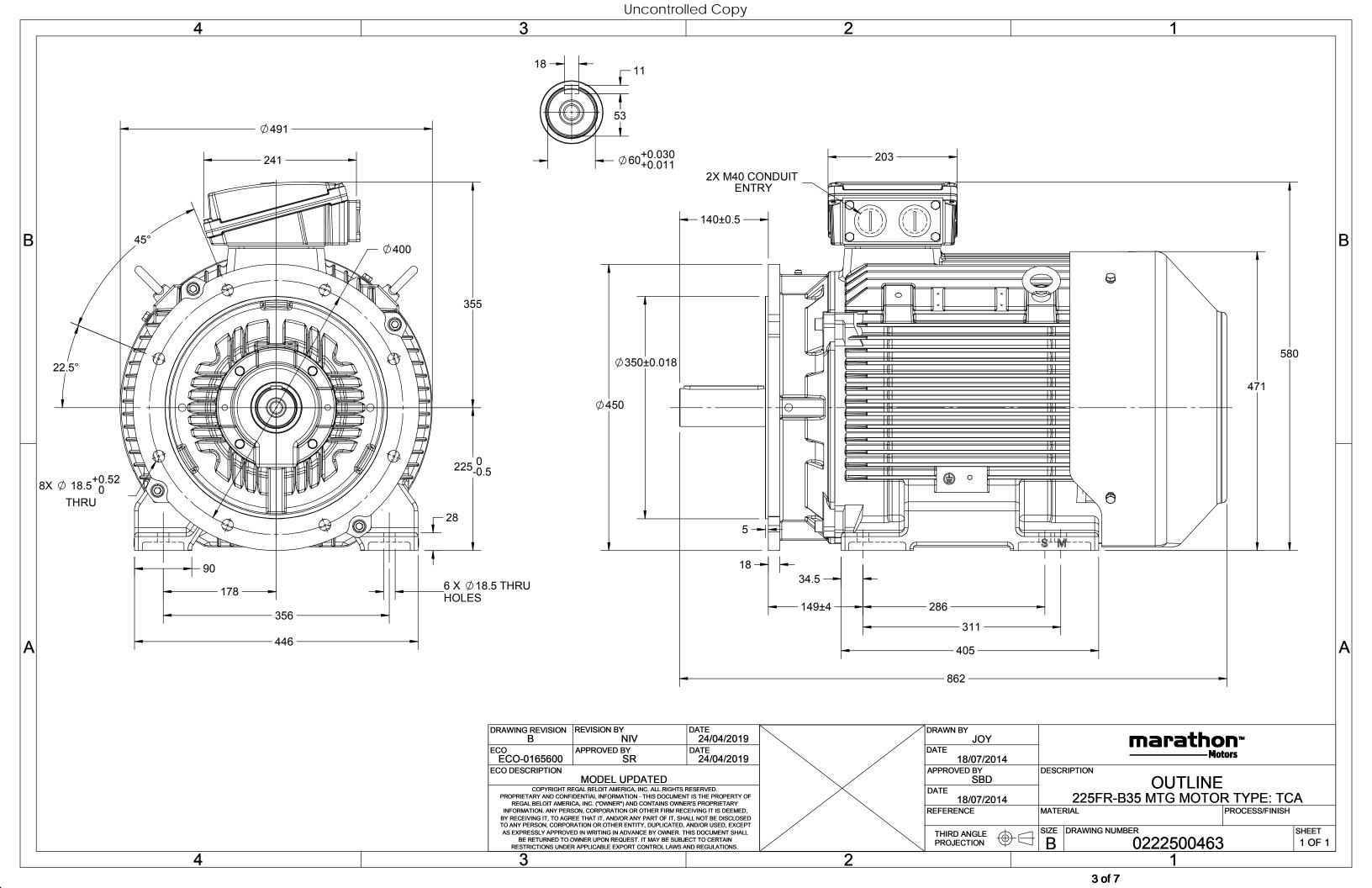
Nameplate Specifications

Output HP	60 Hp	Output KW	45.0 kW
Frequency	50 Hz	Voltage	400 V
Current	82.6 A	Speed	1486 rpm
Service Factor	1	Phase	3
Efficiency	95.4 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	225M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE4

Technical Specifications

Squirrel Cage	Starting Method	Direct On Line
4	Rotation	Bi-Directional
B35	Motor Orientation	Horizontal
СЗ	Opp Drive End Bearing	СЗ
Cast Iron	Shaft Type	Keyed
862 mm	Frame Length	425 mm
60 mm	Shaft Extension	140 mm
Тор		
0222500463	Connection Drawing	8442000085
	4 B35 C3 Cast Iron 862 mm 60 mm Top	4 Rotation B35 Motor Orientation C3 Opp Drive End Bearing Cast Iron Shaft Type 862 mm Frame Length 60 mm Shaft Extension Top

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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

GEOM	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. QCA0452A1131GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	ad	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	45	60	82.0	1486	287.64	IE4	-	95.4	95.4	94.7	0.83	0.77	0.66	8.4	3.0	3.6

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	225M	
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	6313 C3 / 6213 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	
· ·	440	ka
Motor weight - approx.	470	kg
Gross weight - approx.		kg
Motor inertia	0.8148	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mo	tor) 65	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	
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 50mm ² /2 x M40 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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^{*} Voltage, Frequency and combined variation are as per IEC60034-1

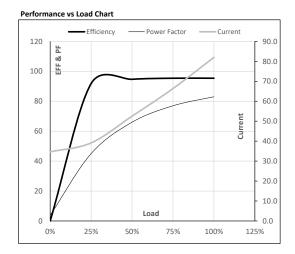




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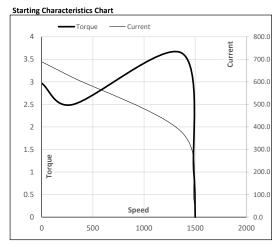
						11	- 1	1	ΙE	Amb	Duty	Elevation	Inertia	Weight
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400	Δ	50	45	60	82.0	1486	29.33	287.64	IE4	40	S1	1000	0.8148	440

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 34.6 39.1 52.5 66.4 82.0 287.6 Torque Nm 0.0 71.4 143.1 215.2 Speed r/min 1500 1496 1493 1489 1486 Efficiency % 0.0 91.8 94.7 95.4 95.4 45.0 66.0 77.0 Power Factor 3.8 83.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	300	1367	1486	1500
Current	Α	689.0	620.1	377.6	82.0	34.6
Torque	pu	3.0	2.5	3.6	1	0



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

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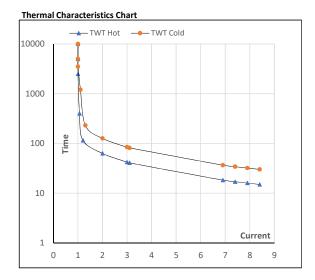




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Δ	50	45	60	82.0	1486	29.33	287.64	IE4	40	S1	1000	0.8148	440

Motor Spee	Motor Speed Torque Data													
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR						
TWT Hot	S	10000	63	42	34	25	20	15						
TWT Cold	S	10000	126	84	70	55	50	30						
Current	pu	1	2	3	4	5	5.5	8.4						



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

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