PRODUCT INFORMATION PACKET



Model No: QCA0114A1141GAA001 Catalog No: QCA0114A1141GAA001

TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 180L Frame, TEFC





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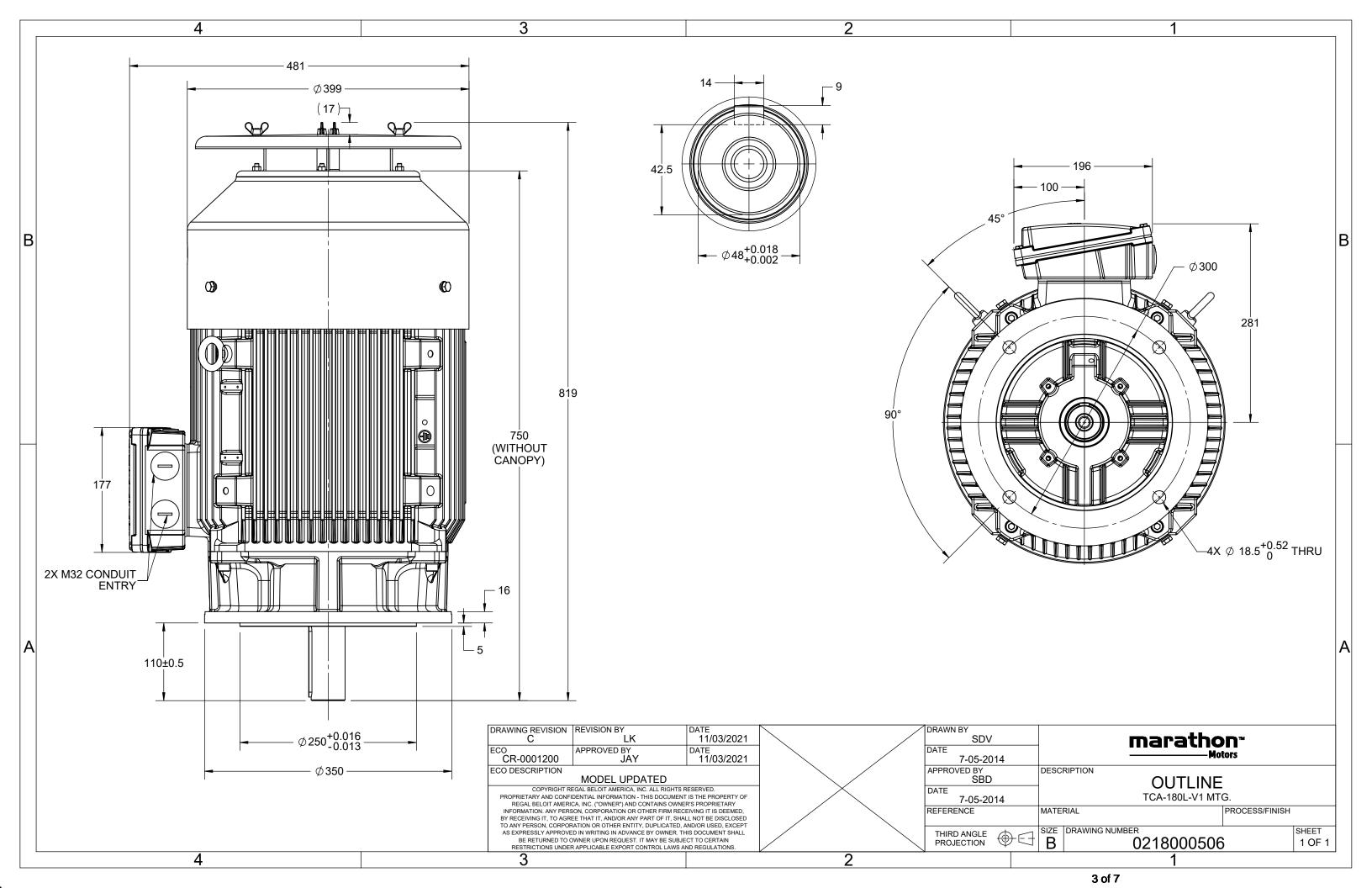
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	24.8 A	Speed	732 rpm
Service Factor	1	Phase	3
Efficiency	90.4 %	Power Factor	0.71
Duty	S1	Insulation Class	F
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
UL	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	8	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	819 mm	Frame Length	366 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0218000506

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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. QCA0114A1141GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF a	t load	l	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	11	15	24.7	732	146.18	IE4	-	90.4	90.4	89.1	0.71	0.64	0.5	7	2.0	3.3

Motor type	QCA		Degree of protection	IP 55
Enclosure	TEFC		Mounting type	IM V1
Frame Material	Cast Iron		Cooling method	IC 411
Frame size	180L		Motor weight - approx.	240
Duty	S1		Gross weight - approx.	260
Voltage variation *	± 10%		Motor inertia	0.3337
Frequency variation *	± 5%		Load inertia	Customer to Provide
Combined variation *	10%		Vibration level	2.2
Design	N		Noise level (1meter distance from moto	or) 60
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4
Insulation class	F		Starting method	DOL
Ambient temperature	-20 to +40	°C	Type of coupling	Direct
Temperature rise (by resistance)	80 [Class B]	K	LR withstand time (hot/cold)	15/30
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional
Hazardous area classification	NA		Standard rotation	Clockwise form DE
Zone classification	NA		Paint shade	RAL 5014
Gas group	NA		Accessories	
Temperature class	NA		Accessory - 1	PTC 150°C
Rotor type	Aluminum Die cast		Accessory - 2	-
Bearing type	Anti-friction ball		Accessory - 3	-
DE / NDE bearing	6311-2Z / 6211-2Z		Terminal box position	TOP
Lubrication method	Greased for life		Maximum cable size/conduit size 1	R x 3C x 35mm ² /2 X M32 x 1.5
Type of grease	NA		Auxiliary terminal box	NA

 $\rm I_A/I_N$ - 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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kg kgm²

mm/s dB(A)

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

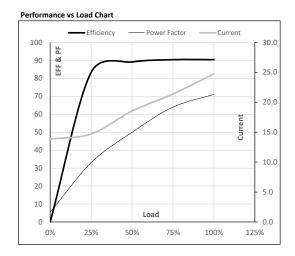




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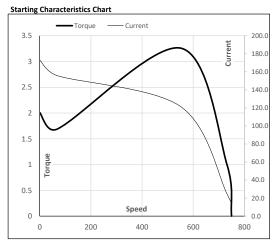
Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15	24.7	732	14.91	146.18	IE4	40	S1	1000	0.3337	240

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 13.9 18.5 21.4 24.7 Torque Nm 0.0 35.9 72.2 108.9 146.2 Speed r/min 750 746 741 737 732 Efficiency % 0.0 83.3 89.1 90.4 90.4 50.0 64.0 71.0 Power Factor 5.4 33.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	68	551	732	750
Current	Α	173.2	155.8	121.5	24.7	13.9
Torque	pu	2.0	1.7	3.3	1	0



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

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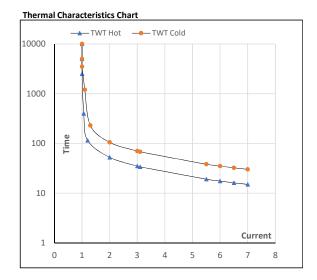




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Υ	50	11	15	24.7	732	14.91	146.18	IE4	40	S1	1000	0.3337	240

Motor Speed	Motor Speed Torque Data													
Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR						
TWT Hot	S	10000	53	35	30	25	19	15						
TWT Cold	S	10000	105	70	60	45	38	30						
Current	pu	1	2	3	4	5	5.5	7						



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

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