PRODUCT INFORMATION PACKET



Model No: QCA18P2A1111GAA001 Catalog No: QCA18P2A1111GAA001

TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 180M Frame, TEFC



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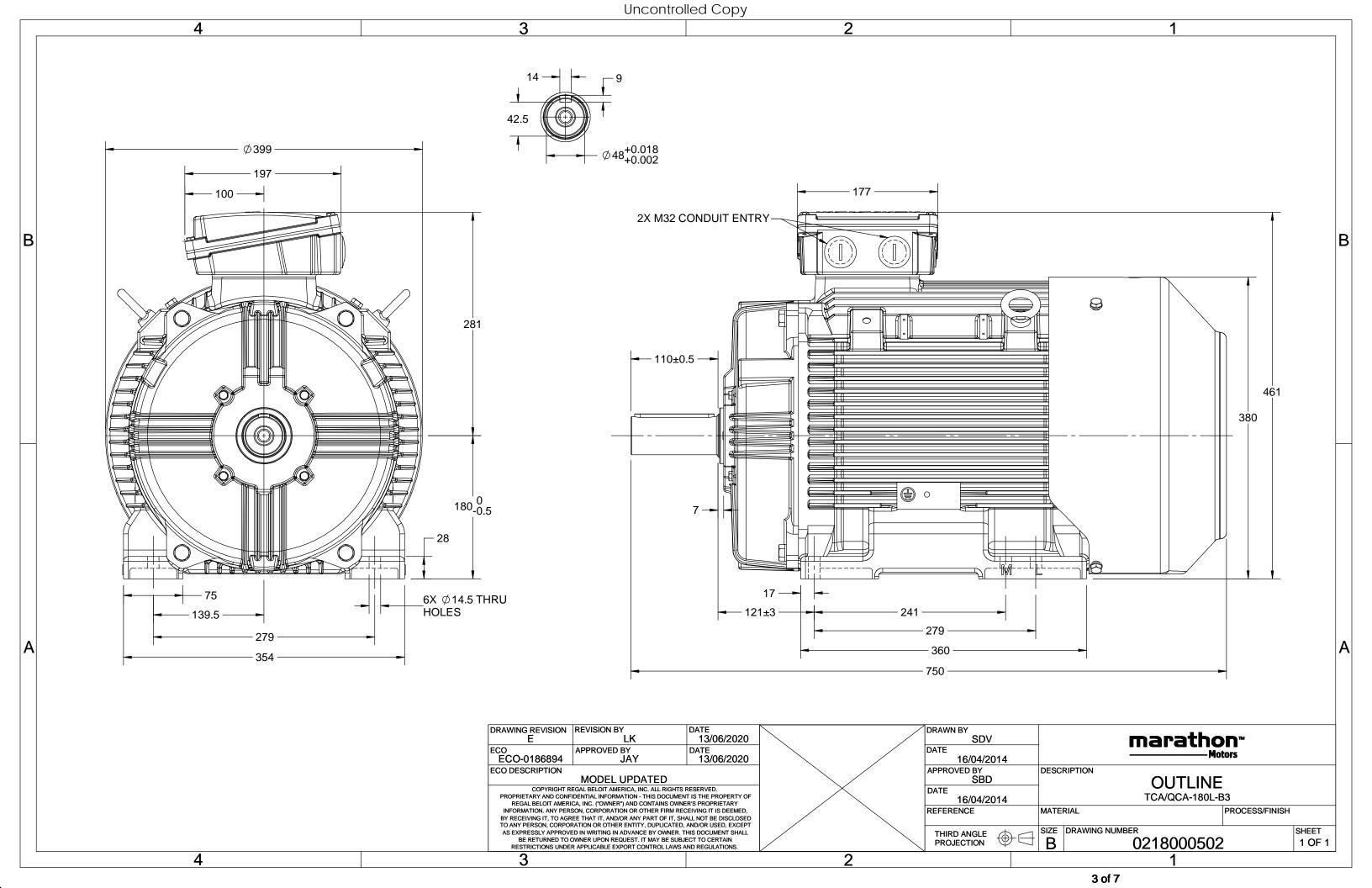
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	400 V
Current	34.5 A	Speed	1479 rpm
Service Factor	1	Phase	3
Efficiency	94.2 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	180M	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	4	Rotation	Bi-Directional
Mounting	В3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	750 mm	Frame Length	366 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0218000502

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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. QCA18P2A1111GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 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	18.5	25	34.2	1479	120.41	IE4	-	94.2	94.2	93	0.83	0.77	0.64	7.6	2.6	3.6

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	180M	
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)	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	6311-2Z / 6211-2Z	
Lubrication method	Greased for life	
Type of grease	NA	

Degree of protection	IP 55	
Mounting type	IM B3	
Cooling method	IC 411	
Motor weight - approx.	231	kg
Gross weight - approx.	251	kg
Motor inertia	0.2410	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mot	cor) 64	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 35mm²/2 X M32 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

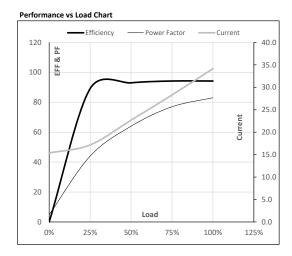




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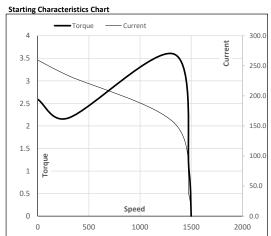
Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25	34.2	1479	12.28	120.41	IE4	40	S1	1000	0.2410	231

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 15.4 17.2 22.7 28.3 34.2 Torque Nm 0.0 29.8 59.8 90.0 120.4 Speed r/min 1500 1495 1490 1484 1479 Efficiency % 0.0 89.1 93.0 94.2 94.2 77.0 Power Factor 4.9 44.0 64.0 83.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1336	1479	1500	
Current	Α	259.6	233.6	154.7	34.2	15.4	
Torque	pu	2.6	2.2	3.6	1	0	



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

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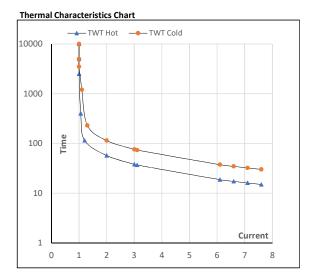




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Δ	50	18.5	25	34.2	1479	12.28	120.41	IE4	40	S1	1000	0.2410	231

Motor Speed	Motor Speed Torque Data													
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR						
TWT Hot	S	10000	57	38	34	25	20	15						
TWT Cold	S	10000	114	76	60	50	40	30						
Current	pu	1	2	3	4	5	5.5	7.6						



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

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