PRODUCT INFORMATION PACKET



Model No: QCA0113AF141GAA001 Catalog No: QCA0113AF141GAA001

TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 160L Frame, TEFC





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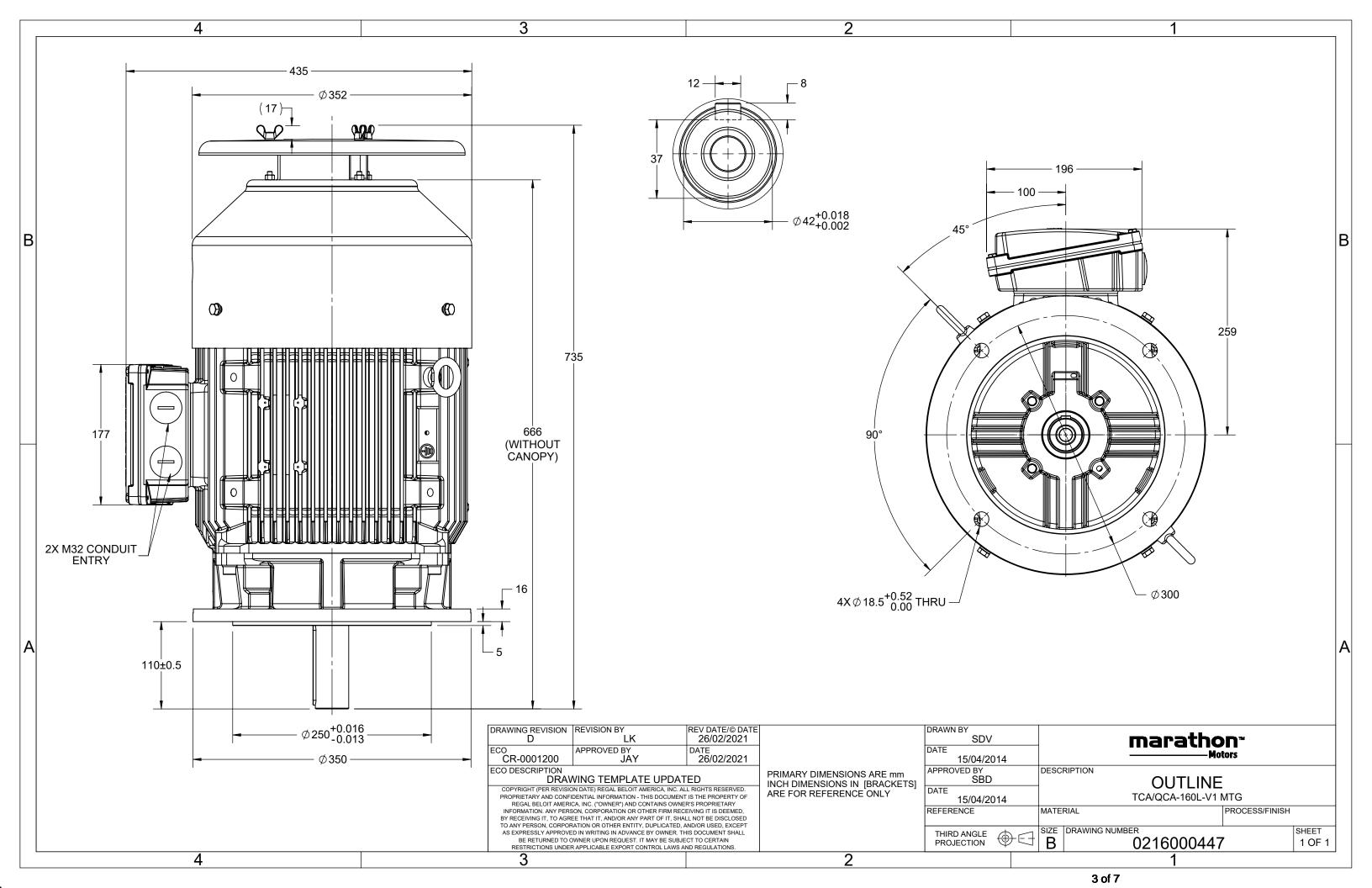
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	380 V
Current	24.1 A	Speed	984 rpm
Service Factor	1	Phase	3
Efficiency	92.3 %	Power Factor	0.76
Duty	S1	Insulation Class	F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
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	6	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	735 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0216000447	Connection Drawing	8442000085

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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. QCA0113AF141GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF a	t load	I	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]
380	Δ	50	11	15	23.8	984	108.63	IE4	-	92.3	92.3	89.7	0.76	0.67	0.53	7.7	3.1	3.5

Motor type	QCA		Degree of protection	
Enclosure	TEFC		Mounting type	
Frame Material	Cast Iron		Cooling method	
Frame size	160L		Motor weight - approx.	
Duty	S1		Gross weight - approx.	
Voltage variation *	± 10%		Motor inertia	
Frequency variation *	± 5%		Load inertia	Custo
Combined variation *	10%		Vibration level	
Design	N		Noise level (1meter distance from r	notor)
Service factor	1.0		No. of starts hot/cold/Equally sprea	d
Insulation class	F		Starting method	
Ambient temperature	-20 to +40	°C	Type of coupling	
Temperature rise (by resistance)	80 [Class B]	K	LR withstand time (hot/cold)	
Altitude above sea level	1000	meter	Direction of rotation	В
Hazardous area classification	NA		Standard rotation	Cloc
Zone classification	NA		Paint shade	
Gas group	NA		Accessories	
Temperature class	NA		Accessory - 1	
Rotor type	Aluminum Die cast		Accessory - 2	
Bearing type	Anti-friction ball		Accessory - 3	
DE / NDE bearing	6309-2Z / 6209-2Z		Terminal box position	
Lubrication method	Greased for life		Maximum cable size/conduit size	1R x 3C x 3
Type of grease	NA		Auxiliary terminal box	

Degree of protection	IP 55	
Mounting type	IM V1	
Cooling method	IC 411	
Motor weight - approx.	197	kg
Gross weight - approx.	217	kg
Motor inertia	0.2398	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from mo	tor) 61	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 $T_{\rm K}/T_{\rm N}$ - 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 discrepancies between calculated and name plate values.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

^{*} Voltage, Frequency and combine variation are as per IEC60034-1

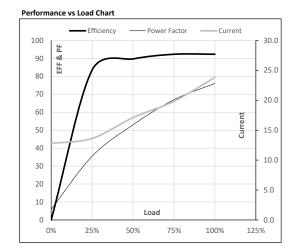




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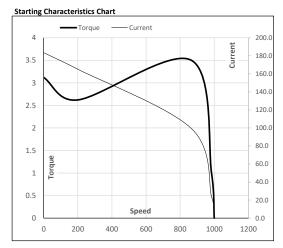
Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	11	15	23.8	984	11.08	108.63	IE4	40	S1	1000	0.2398	197

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 12.8 13.6 17.1 19.8 23.8 Torque Nm 0.0 26.8 53.9 81.1 108.6 Speed r/min 1000 996 992 988 984 Efficiency % 0.0 83.5 89.7 92.3 92.3 35.5 53.0 67.0 Power Factor 5.9 76.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	200	866	984	1000
Current	Α	183.5	165.1	99.4	23.8	12.8
Torque	pu	3.1	2.6	3.5	1	0



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

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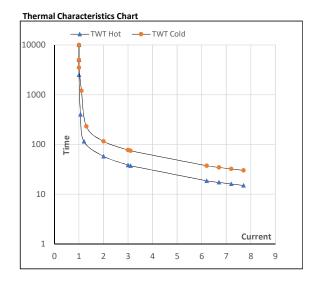




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380	Δ	50	11	15	23.8	984	11.08	108.63	IE4	40	S1	1000	0.2398	197

Motor Speed	Motor Speed Torque Data												
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR					
TWT Hot	S	10000	58	39	30	25	20	15					
TWT Cold	S	10000	116	77	60	45	40	30					
Current	pu	1	2	3	4	5	5.5	7.7					



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

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