PRODUCT INFORMATION PACKET

Model No: QCA18P2AF141GAA001 Catalog No: QCA18P2AF141GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 180M Frame, TEFC



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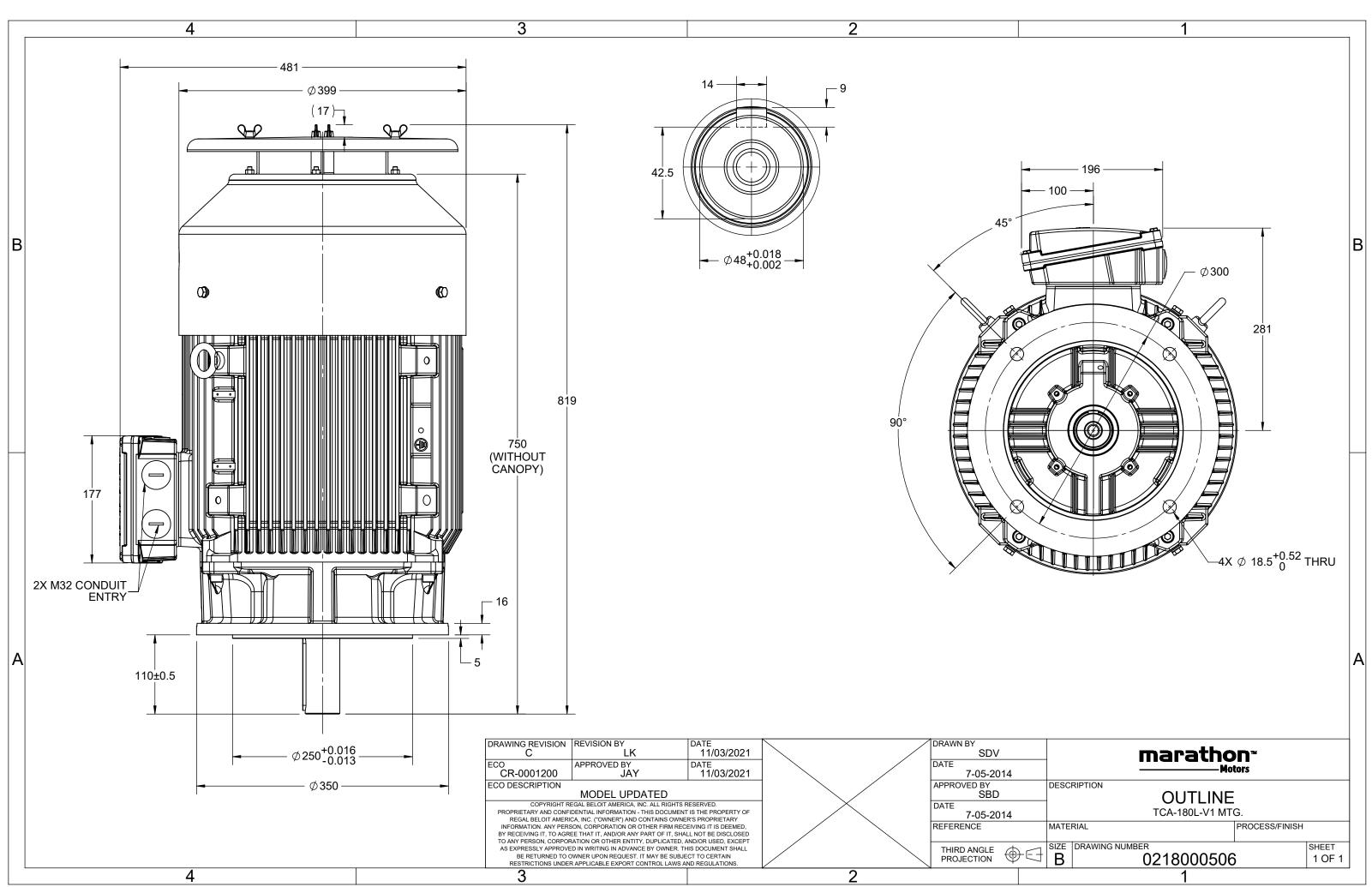
Nameplate Specifications

Output HP	25 Нр	Output KW	18.5 kW
Frequency	50 Hz	Voltage	380 V
Current	36.3 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		40.00
	NO Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	40 °C 6211
		-	
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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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Model No. QCA18P2AF141GAA001

U	Δ/Υ	f	Р	Р	1	n	т	IE		% EFF a	tload	ł	PF	at_lo	ad	I _A /I _N	T_A/T_N	T _K /T _N
(∨)	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	18.5	25	35.9	1479	120.41	IE4	-	94.2	94.2	93	0.83	0.77	0.64	7.6	2.6	3.6
Motor					QCA						protectio	on				IP 55		
Enclos					TEFC					unting						IM V1		
Frame	Materia	I			Cast Iro				Coc	oling me	thod					IC 411		
Frame	size				180N	1			Mo	tor wei	ght - app	orox.				243		kg
Duty					S1				Gro	ss weig	ht - app	rox.				263		kg
Voltag	e variatio	on *			± 10%	D D			Motor inertia						0.2410		kgm ²	
Freque	ency vari	ation *			± 5%					d inerti	а				Custo	omer to Provi	ide	
Combi	ned varia	ation *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν			Noi	Noise level (1meter distance from motor)) 64			dB(A)	
Service	e factor				1.0				No.	of star	ts hot/co	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class	5			F				Sta	rting m	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Tempe	erature ri	ise (by r	resistand	ce)	80 [Class	s B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		s
Altitud	e above	sea lev	el		1000			meter	Dire	ection c	f rotatio	on			В	i-directional		
Hazard	lous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form D	DE	
	Zone cl	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	oup			NA				Acc	essorie	s							
	Temper	rature c	lass		NA					Acc	essory -	· 1				PTC 150°C		
Rotor t				Al	uminum D	Die cast					essory -					-		
Bearin				ŀ	Anti-frictio	n ball					essory -					-		
	DE beari	ng		63	811-2Z/6	211-2Z			Ter		ox posit					TOP		
	ation me	0		(Greased fo	or life					cable siz		uit size	1R	x 3C x 3	35mm²/2 X M	132 x 1.5	
	f grease				NA						erminal b	•				NA		
.,																		

 I_A/I_N - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

 $T_{\text{A}}/T_{\text{N}}$ - Locked Rotor 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

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

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

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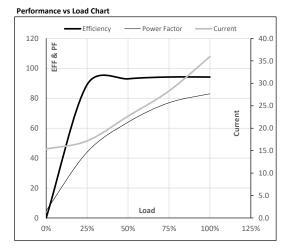


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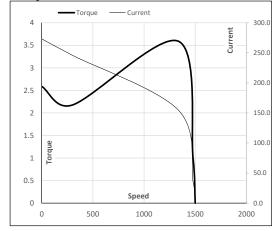
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	18.5	25	35.9	1479	12.28	120.41	IE4	40	S1	1000	0.2410	243

Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	15.4	17.2	22.7	28.3	35.9	
Nm	0.0	29.8	59.8	90.0	120.4	
r/min	1500	1495	1490	1484	1479	
%	0.0	89.1	93.0	94.2	94.2	
%	4.9	44.0	64.0	77.0	83.0	
	Nm r/min %	A 15.4 Nm 0.0 r/min 1500 % 0.0	A 15.4 17.2 Nm 0.0 29.8 r/min 1500 1495 % 0.0 89.1	A 15.4 17.2 22.7 Nm 0.0 29.8 59.8 r/min 1500 1495 1490 % 0.0 89.1 93.0	A 15.4 17.2 22.7 28.3 Nm 0.0 29.8 59.8 90.0 r/min 1500 1495 1490 1484 % 0.0 89.1 93.0 94.2	A 15.4 17.2 22.7 28.3 35.9 Nm 0.0 29.8 59.8 90.0 120.4 r/min 1500 1495 1490 1484 1479 % 0.0 89.1 93.0 94.2 94.2



Starting Characteristics Chart



Motor Speed Torque Data P-Up BD Rated NL LR Load Point Speed r/min 0 300 1336 1479 1500 Current А 273.2 245.9 154.7 35.9 15.4 0 Torque pu 2.6 2.2 3.6 1

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

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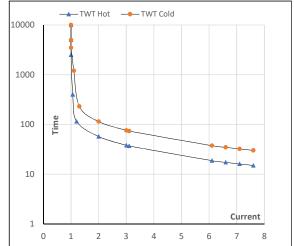
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	18.5	25	35.9	1479	12.28	120.41	IE4	40	S1	1000	0.2410	243

Motor Speed Torque Data

Load		FL	I_1	I 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

Thermal Characteristics Chart



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

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