PRODUCT INFORMATION PACKET

Model No: QCA18P4A1141GAA001 Catalog No: QCA18P4A1141GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 225S Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E



IRexnord"





Product Information Packet: Model No: QCA18P4A1141GAA001, Catalog No:QCA18P4A1141GAA001 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 225S Frame, TEFC

marathon®

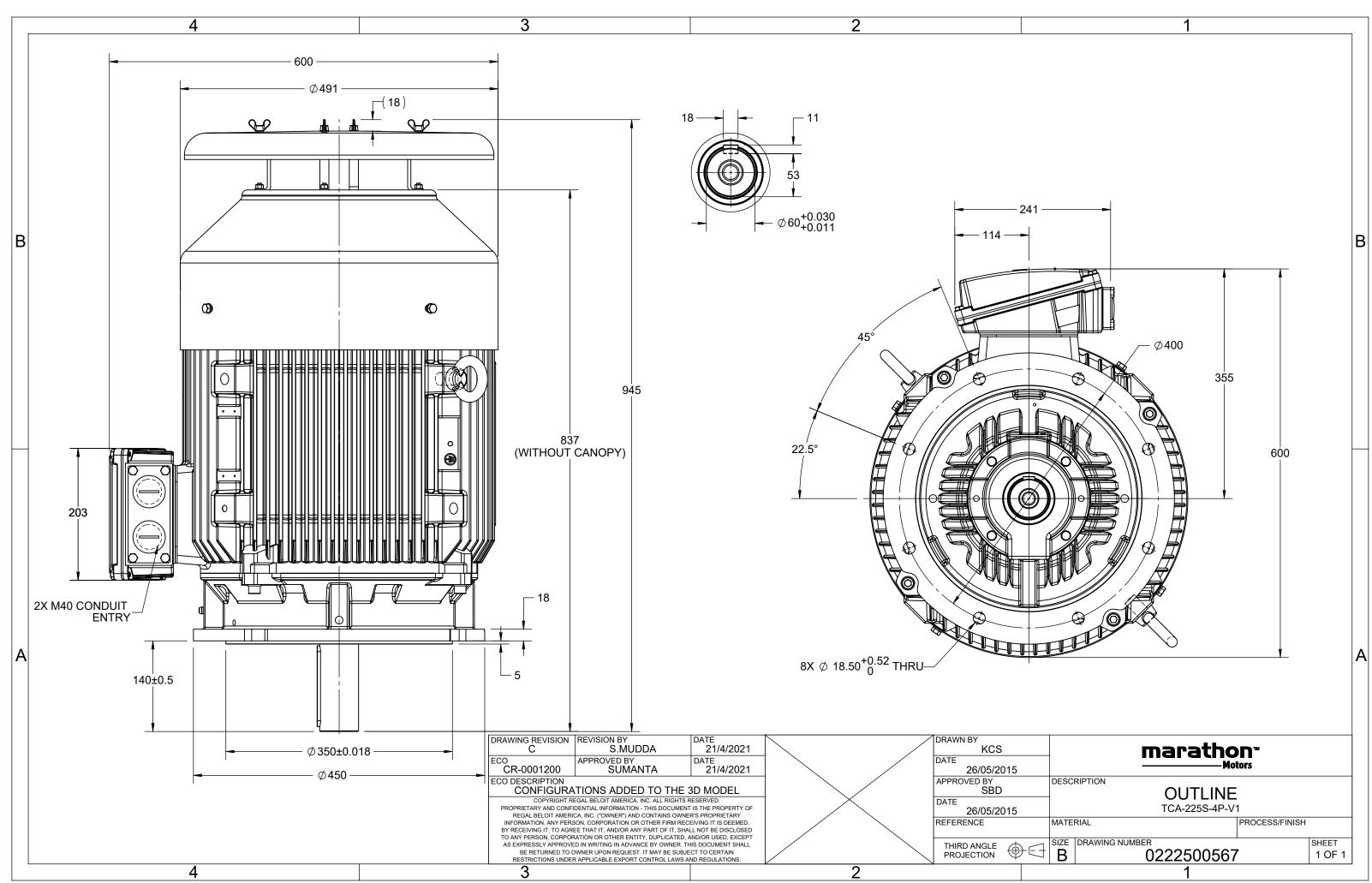
Nameplate Specifications

Output HP	25 Нр	Output KW	18.5 kW
Frequency	50 Hz	Voltage	400 V
Current	38.1 A	Speed	739 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	0.77
Duty	S1	Insulation Class	F
Frame	225S	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	225S No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6313	Ambient Temperature Opp Drive End Bearing Size	40 °C 6213

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	945 mm	Frame Length	400 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0222500567

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 12/01/2022



3 of 7





TerraMAX[®]

Model No. QCA18P4A1141GAA001

U	Δ / Y	f	Р	Р	1	n	т	IE		% EFF a	t load	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	T _κ /T _N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL		FL	3/4FL		[pu]	[pu]	[pu]
400	Δ	50	18.5	25	37.8	739	241.08	IE4	-	91.7	91.7	90.1	0.77	0.7	0.57	5.4	1.8	2.4
400	4	50	10.5	25	57.0	755	241.00	164		51.7	51.7	50.1	0.77	0.7	0.57	5.4	1.0	2.7
Motor	type				QCA				Deg	gree of	protecti	on				IP 55		
Enclosu	ure		TEFC						Мо	unting	type					IM V1		
Frame	Materia	I		Cast Iron						oling me	ethod					IC 411		
Frame	size			2255					Мо	tor wei	ght - ap	orox.			380			kg
Duty				S1						Gross weight - approx.					410			kg
Voltage	e variatio	on *			± 10%	6		Motor inertia							0.8781		kgm ²	
Freque	ncy varia	iation * ± 5%					Loa	Load inertia					Custo	omer to Provi	de			
Combi	ned varia	ation *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν				No	Noise level (1meter distance from motor)					61			dB(A)
Service	factor				1.0				No	No. of starts hot/cold/Equally spread					2/3/4			
Insulat	ion class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling					Direct			
Tempe	rature ri	se (by r	esistanc	ce)	80 [Clas	s B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		s
Altitud	e above	sea lev	el		1000			meter	Dire	ection c	of rotatio	on			В	i-directional		
Hazard	lous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form D	Ε	
	Zone cla	assifica	tion		NA				Pai	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA					Acc	cessory -	· 1				PTC 150°C		
Rotor t	ype			Alı	uminum E	Die cast				Acc	cessory -	- 2				-		
Bearing	g type			A	nti-frictio	n ball				Acc	cessory -	- 3				-		
DE / NI	DE beari	ng		63	13 C3 / 6	213 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	ation me	thod			Regrease	able			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 5	50mm²/2 x M	40 x 1.5	
	f grease			CHEVIDO	DN SRI-2 c	r Fauival	ont		A		erminal					NA		

 I_A/I_N - Locked Rotor Current / Rated Current

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

 $\rm T_A/\rm T_N$ - 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 combined variation are as per IEC60034-1

Technical da	ta are subject to chang	ge. There may be slight v	ariations between calculated v	alues in this datashe	et and the motor name	plate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2	- 004	IEC 60034-30-1

REGAL

marathon®

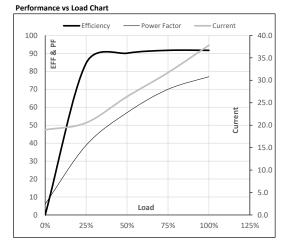


Model No. QCA18P4A1141GAA001

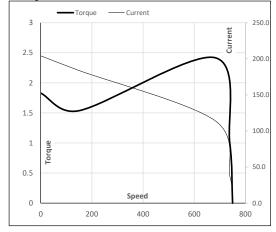
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	18.5	25	37.8	739	24.58	241.08	IE4	40	S1	1000	0.8781	380
	100	-	50	10.5	25	5710	, 55	21.50	212.00			01	1000	0.0701	5

Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	19.0	20.5	26.4	31.7	37.8	
Nm	0.0	59.6	119.6	180.1	241.1	
r/min	750	747	745	742	739	
%	0.0	84.5	90.1	91.7	91.7	
%	6.1	38.8	57.0	70.0	77.0	
	Nm r/min %	A 19.0 Nm 0.0 r/min 750 % 0.0	A 19.0 20.5 Nm 0.0 59.6 r/min 750 747 % 0.0 84.5	A 19.0 20.5 26.4 Nm 0.0 59.6 119.6 r/min 750 747 745 % 0.0 84.5 90.1	A 19.0 20.5 26.4 31.7 Nm 0.0 59.6 119.6 180.1 r/min 750 747 745 742 % 0.0 84.5 90.1 91.7	A 19.0 20.5 26.4 31.7 37.8 Nm 0.0 59.6 119.6 180.1 241.1 r/min 750 747 745 742 739 % 0.0 84.5 90.1 91.7 91.7



Starting Characteristics Chart



Motor Speed Torque Data P-Up BD Rated NL LR Load Point Speed r/min 0 150 680 739 750 Current А 204.2 183.8 114.7 37.8 19.0 Torque ри 1.8 1.5 2.4 1 0

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

Issued By Issued Date

REGAL





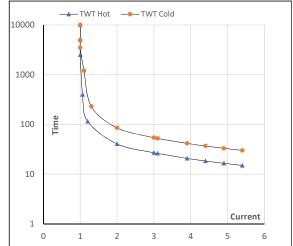
Model No. QCA18P4A1141GAA001

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	400	Y	50	18.5	25	37.8	739	24.58	241.08	IE4	40	S1	1000	0.8781	380

Motor Speed Torque Data

Load		FL	I_1	I ₂	I_3	I_4	I ₅	LR
TWT Hot	S	10000	41	27	20	17	16	15
TWT Cold	s	10000	85	54	41	35	32	30
Current	pu	1	2	3	4	4.5	5	5.4

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL