PRODUCT INFORMATION PACKET



Model No: QCA5P52A1141GAA001 Catalog No: QCA5P52A1141GAA001

TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 132S Frame, TEFC



FRegal Rexnord

Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E



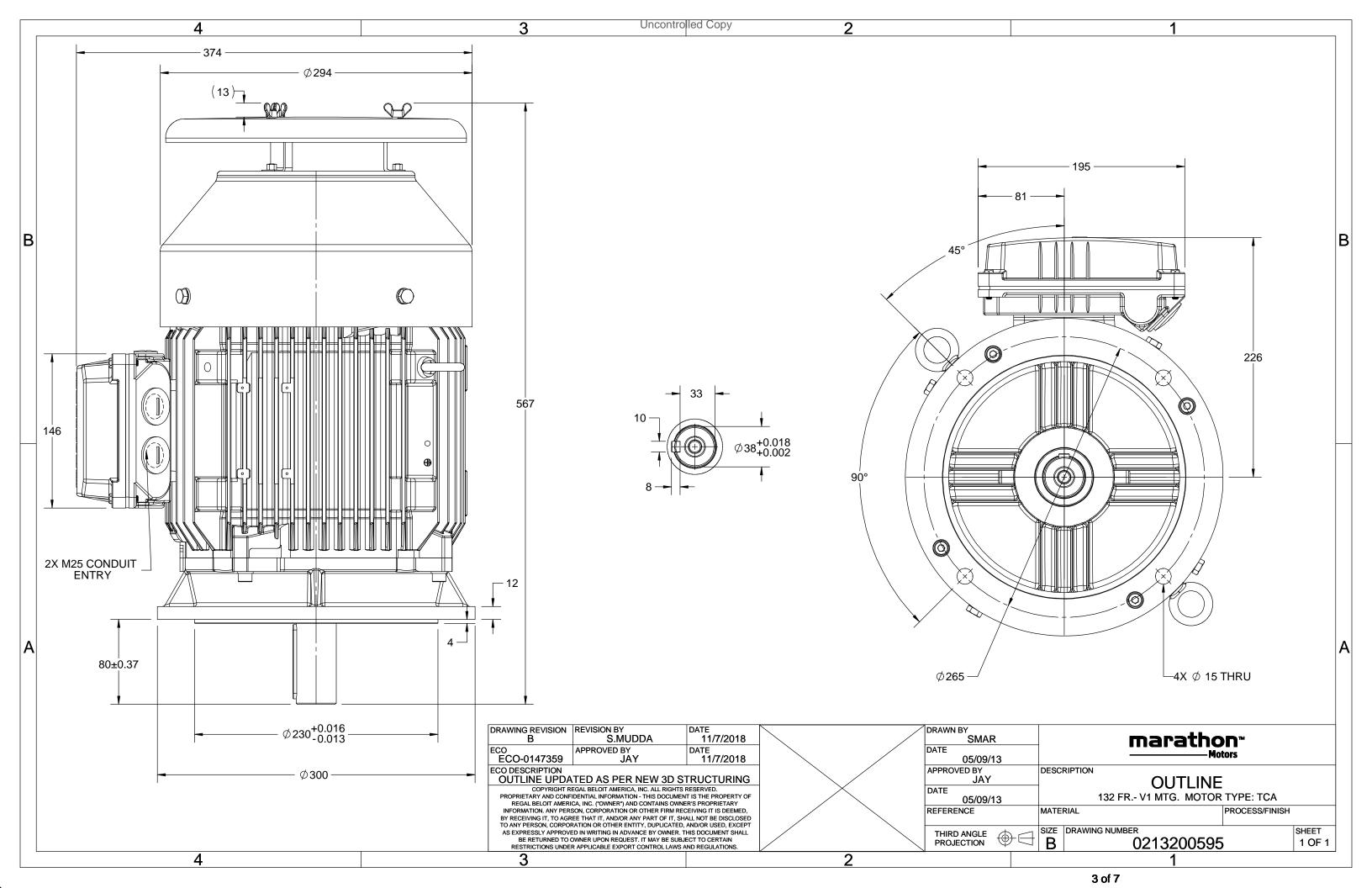
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	400 V
Current	11.0 A	Speed	1470 rpm
Service Factor	1	Phase	3
Efficiency	91.9 %	Power Factor	0.79
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
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	V1	Motor Orientation	Shaftdown	
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	567 mm	Frame Length	240 mm	
Shaft Diameter	38 mm	Shaft Extension	80 mm	
Assembly/Box Mounting	Тор			
Connection Drawing	8442000085	Outline Drawing	0213200595	

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



COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RUSTING FRENCHED COPY PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

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. QCA5P52A1141GAA001

U	Δ/Υ	f	Р	Р	I	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	5.5	7.5	10.9	1470	36.36	IE4	-	91.9	91.9	91.1	0.79	0.72	0.59	6.9	2.5	3.1

Motor type	QCA		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM V1	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	132S		Motor weight - approx.	90	kg
Duty	S1		Gross weight - approx.	93	kg
Voltage variation *	± 10%		Motor inertia	0.0476	kgm²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	1.6	mm/s
Design	N		Noise level (1meter distance from motor	or) 61	dB(A)
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	s
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	6308-2Z / 6208-2Z		Terminal box position	TOP	
Lubrication method	Greased for life		Maximum cable size/conduit size	LR x 3C x 16mm ² /2 x M25 x 1.5	
Type of grease	NA		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

REGAL

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

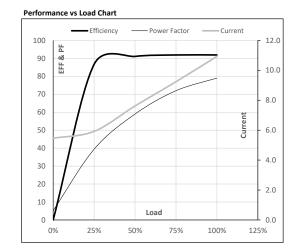




Model No. QCA5P52A1141GAA001

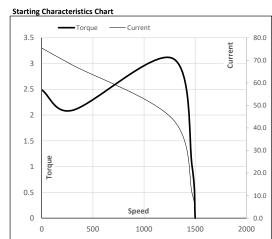
Enclosure	U	Δ/Υ	f	Р	Р	- 1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	5.5	7.5	10.9	1470	3.71	36.36	IE4	40	S1	1000	0.0476	90

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 5.5 5.9 7.6 9.2 10.9 Torque Nm 0.0 8.9 18.0 27.1 36.4 Speed r/min 1500 1493 1486 1478 1470 Efficiency % 0.0 86.7 91.1 91.9 91.9 72.0 Power Factor 5.2 39.4 59.0 79.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	300	1279	1470	1500
Current	Α	75.4	67.9	44.0	10.9	5.5
Torque	pu	2.5	2.1	3.1	1	0



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

Issued By Issued Date

REGAL

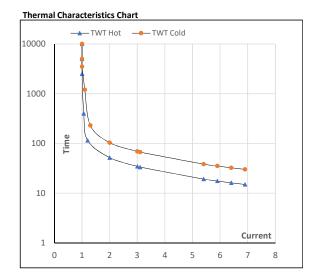




Model No. QCA5P52A1141GAA001

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	400	Υ	50	5.5	7.5	10.9	1470	3.71	36.36	IE4	40	S1	1000	0.0476	90

Motor Speed	d Torq	ue Data		Motor Speed Torque Data													
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR									
TWT Hot	S	10000	52	35	30	25	18	15									
TWT Cold	S	10000	104	69	60	45	35	30									
Current	pu	1	2	3	4	5	5.5	6.9									



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

Issued By Issued Date

DECAL S