PRODUCT INFORMATION PACKET



Model No: QCA1101A1133GAA001 Catalog No: QCA1101A1133GAA001

TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 315S Frame, TEFC





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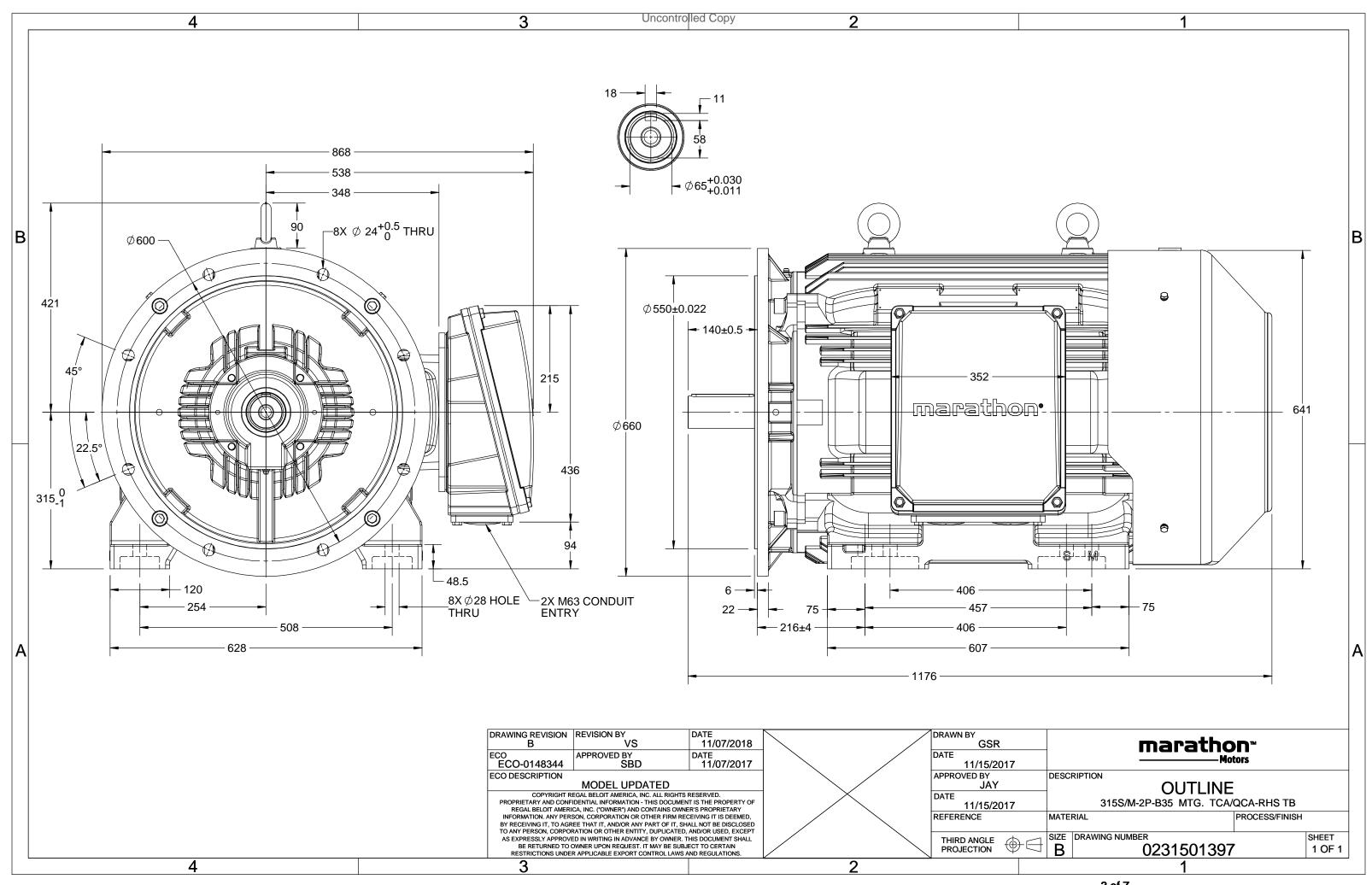
Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW	
Frequency	50 Hz	Voltage	400 V	
Current	188.2 A	Speed	2983 rpm	
Service Factor	1	Phase	3	
Efficiency	96 %	Power Factor	0.88	
Duty	S1	Insulation Class	F	
Frame	315S	Enclosure	Totally Enclosed Fan Cooled	
Thermal Protection	No Protection	Ambient Temperature	40 °C	
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6316	
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	2	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1176 mm	Frame Length	729 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0231501397

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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. QCA1101A1133GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF a	it 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]
400	Δ	50	110	150	187.9	2983	358.07	IE4	-	96	96	94.3	0.88	0.85	0.77	6.9	2.0	3.5

Motor type	QCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	315S	
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 resistan	ce) 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	6316 C3 / 6316 C3	
Lubrication method	Regreasable	
Type of grease	CHEVRON SRI-2 or Equivalent	

IP 55	
IM B35	
IC 411	
1051	kg
1096	kg
2.3582	kgm ²
Customer to Provide	
2.8	mm/s
tor) 83	dB(A)
2/3/4	
DOL	
Direct	
15/30	S
Bi-directional	
Clockwise form DE	
RAL 5014	
PTC 150°C	
-	
-	
RHS	
1R x 3C x 240mm²/2 x M63 x 1.5	
NA	
	IM B35 IC 411 1051 1096 2.3582 Customer to Provide 2.8 for) 83 2/3/4 DOL Direct 15/30 Bi-directional Clockwise form DE RAL 5014 PTC 150°C - RHS IR x 3C x 240mm²/2 x M63 x 1.5

 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 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

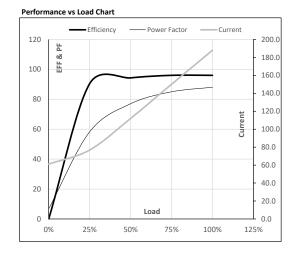




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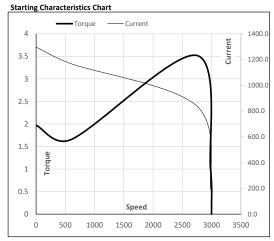
	$J \Delta / Y$	T	Р	Р	I	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	/) Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 400	00 Δ	50	110	150	187.9	2983	36.51	358.07	IE4	40	S1	1000	2.3582	1051

Motor Load Data 3/4FL 5/4FL 1/4FL 1/2FL FL Load Point NL Current 61.1 76.8 111.9 150.0 187.9 Torque Nm 0.0 89.1 178.5 268.2 358.1 Speed r/min 3000 2996 2992 2987 2983 Efficiency % 0.0 90.4 94.3 96.0 96.0 77.0 85.0 Power Factor 6.7 58.2 88.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2744	2983	3000	
Current	Α	1296.8	1167.1	840.8	187.9	61.1	
Torque	pu	2.0	1.7	3.5	1	0	



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

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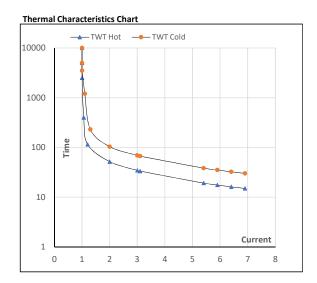




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Enclosure	U	Δ/Υ	f	Р	Р	ı	n	T	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Δ	50	110	150	187.9	2983	36.51	358.07	IE4	40	S1	1000	2.3582	1051

Motor Speed	d Torq	ue Data						
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	S	10000	52	35	30	25	20	15
TWT Cold	S	10000	104	69	65	50	45	30
Current	pu	1	2	3	4	5	5.5	6.9



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

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