PRODUCT INFORMATION PACKET



Model No: QCA2501A1141GAA001 Catalog No: QCA2501A1141GAA001

TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 355M Frame, TEFC





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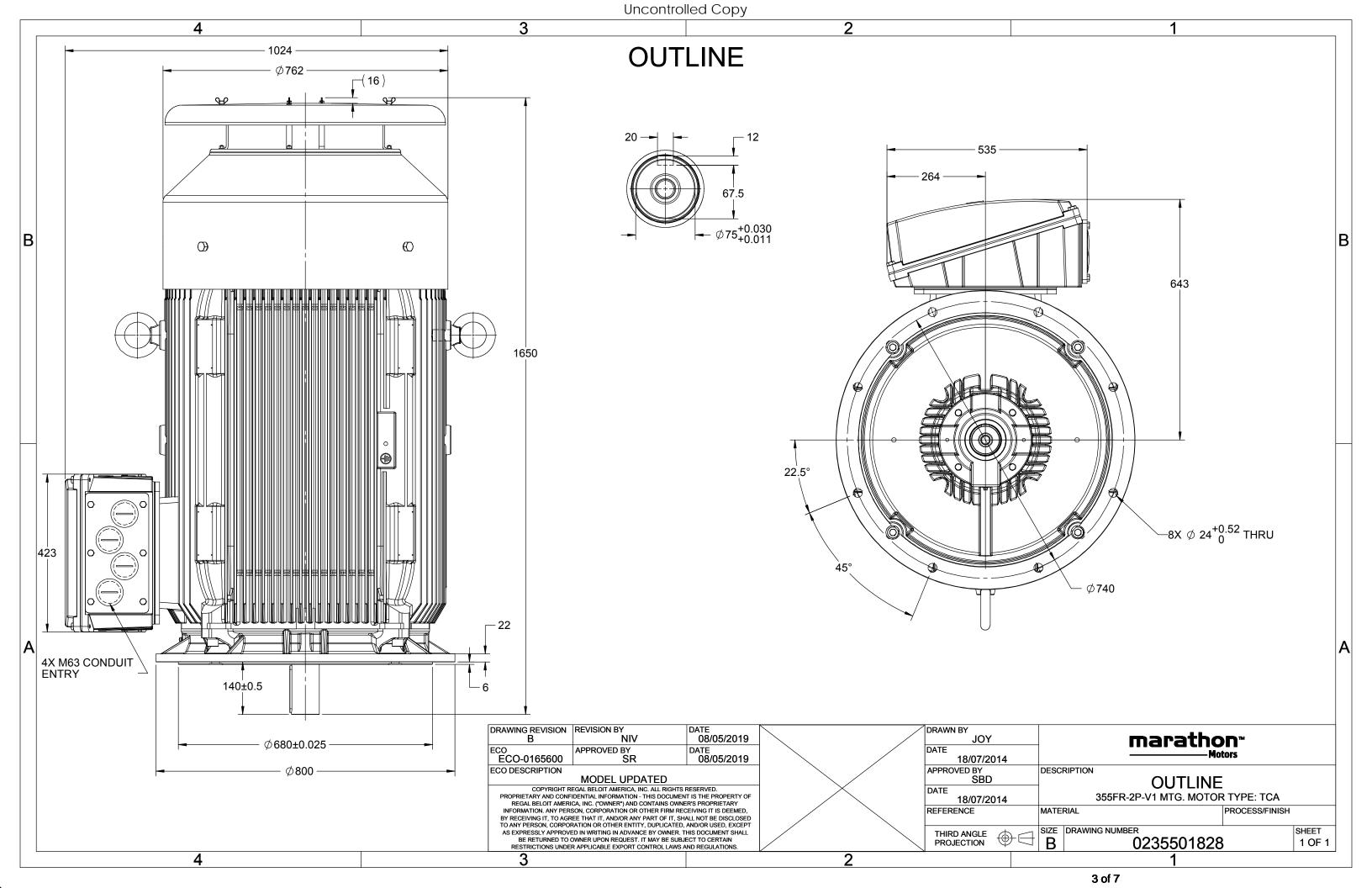
Nameplate Specifications

400 V
400 V
2987 rpm
3
0.89
F
Totally Enclosed Fan Cooled
40 °C
6317
No
55
IE4
: : : :

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	СЗ	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1647 mm	Frame Length	1010 mm
Shaft Diameter	75 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0235501828

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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. QCA2501A1141GAA001

U	Δ/Υ	f	Р	Р	I	n	Т	IE	IE % EFF at load			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	250	335	420.1	2987	798.67	IE4	-	96.5	96.5	94.5	0.89	0.86	0.77	8.3	2.6	4.0

Degree of protection Mounting type Cooling method Motor weight - approx. Gross weight - approx.	IP 55 IM V1 IC 411 1959	
Cooling method Motor weight - approx.	IC 411	
Motor weight - approx.		
9 11	1959	
Gross weight - approx		kg
cross treight approxi	2004	kg
Motor inertia	5.1256	kgm^2
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mot	tor) 90	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 300mm ² /4 x M63 x 1.5	
Auxiliary terminal box	NA	
	Terminal box position Maximum cable size/conduit size	Terminal box position Maximum cable size/conduit size 1R x 3C x 300mm²/4 x M63 x 1.5

 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

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

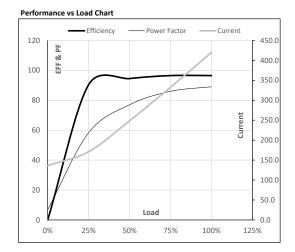




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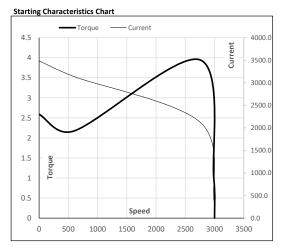
	Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
TEFC 400 Δ 50 250 335 420.1 2987 81.44 798.67 E4 40 S1 1000 5.1256 195		(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
	TEFC	400	Δ	50	250	335	420.1	2987	81.44	798.67	IE4	40	S1	1000	5.1256	1959

Motor Load Data 3/4FL 5/4FL 1/2FL FL Load Point NL 1/4FL Current 136.1 248.6 332.5 420.1 Torque Nm 0.0 199.0 398.4 598.3 798.7 Speed r/min 3000 2997 2993 2990 2987 Efficiency % 0.0 90.4 94.5 96.5 96.5 77.0 Power Factor 6.8 58.3 86.0 89.0



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	600	2748	2987	3000
Current	Α	3487.2	3138.5	2133.2	420.1	136.1
Torque	pu	2.6	2.2	4.0	1	0



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

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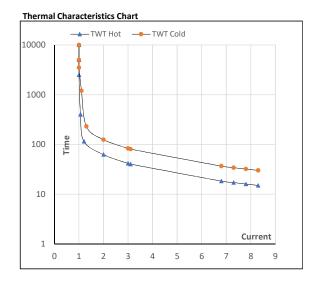




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	400	Δ	50	250	335	420.1	2987	81.44	798.67	IE4	40	S1	1000	5.1256	1959

Motor Speed	d Torq	ue Data						
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	S	10000	62	42	30	25	19	15
TWT Cold	S	10000	125	83	65	50	38	30
Current	pu	1	2	3	4	5	5.5	8.3



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

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