PRODUCT INFORMATION PACKET



Model No: QCA1102AF141GAA001 Catalog No: QCA1102AF141GAA001

TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 315S Frame, TEFC





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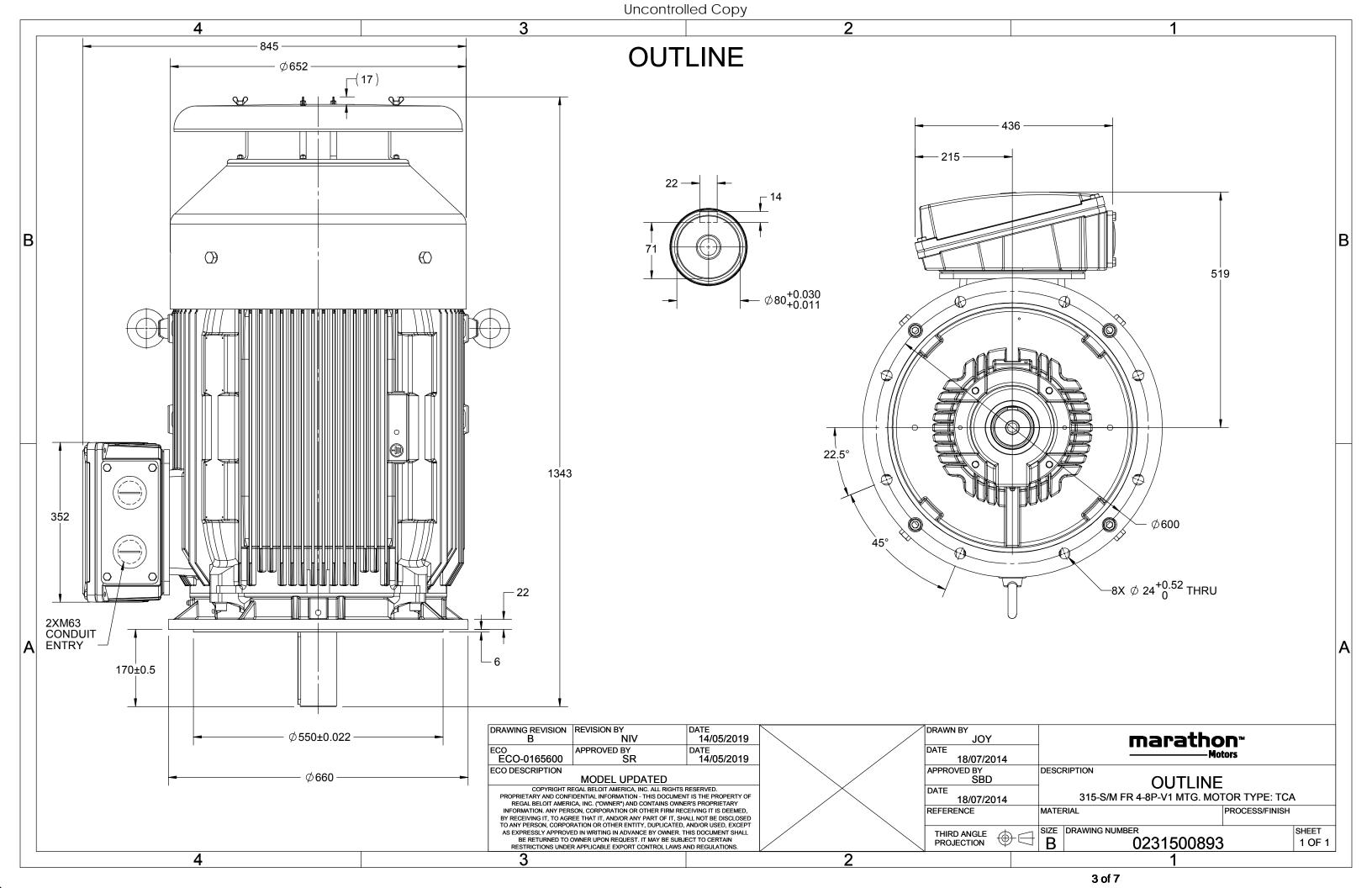
Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	380 V
Current	208.7 A	Speed	1491 rpm
Service Factor	1	Phase	3
Efficiency	96.3 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	315S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
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	С3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1341 mm	Frame Length	729 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500893

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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. QCA1102AF141GAA001

U	Δ/Υ	f	Р	Р	1	n	Т	IE	9	6 EFF a	t load	l	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]
380	Δ	50	110	150	206.6	1491	716.54	IE4	-	96.3	96.3	94.7	0.84	0.78	0.66	8.1	2.6	3.9

Motor type	QCA		De
Enclosure	TEFC		Mo
Frame Material	Cast Iron		Co
Frame size	315S		Mo
Duty	S1		Gr
Voltage variation *	± 10%		Mo
Frequency variation *	± 5%		Loa
Combined variation *	10%		Vik
Design	N		No
Service factor	1.0		No
Insulation class	F		Sta
Ambient temperature	-20 to +40	°C	Туј
Temperature rise (by resistance	e) 80 [Class B]	K	LR
Altitude above sea level	1000	meter	Dir
Hazardous area classification	NA		Sta
Zone classification	NA		Pai
Gas group	NA		Ac
Temperature class	NA		
Rotor type	Aluminum Die cast		
Bearing type	Anti-friction ball		
DE / NDE bearing	6319 C3 / 6319 C3		Tei
Lubrication method	Regreasable		Ma
Type of grease	CHEVRON SRI-2 or Equivalent		Au

Degree of protection	IP 55	
Mounting type	IM V1	
Cooling method	IC 411	
Motor weight - approx.	1071	kg
Gross weight - approx.	1116	kg
Motor inertia	4.0682	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mo	otor) 69	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 240mm²/2 x M63 x 1.5	
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 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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^{*} Voltage, Frequency and combine variation are as per IEC60034-1

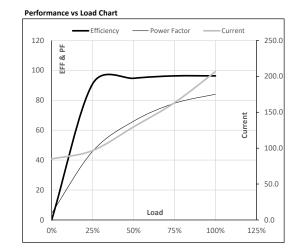




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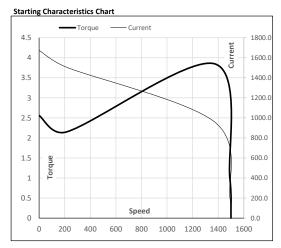
Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	110	150	206.6	1491	73.07	716.54	IE4	40	S1	1000	4.0682	1071

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	84.9	96.6	129.6	163.2	206.6	
Torque	Nm	0.0	178.3	357.2	536.5	716.5	
Speed	r/min	1500	1498	1495	1493	1491	
Efficiency	%	0.0	91.0	94.7	96.3	96.3	
Power Factor	%	4.5	45.9	66.0	78.0	84.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1372	1491	1500	
Current	Α	1673.5	1506.2	959.7	206.6	84.9	
Torque	pu	2.6	2.2	3.9	1	0	



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

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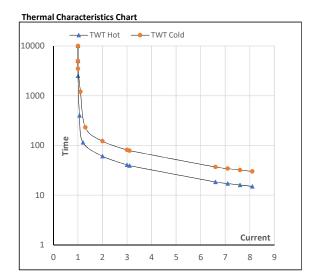




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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
TEFC	380	Δ	50	110	150	206.6	1491	73.07	716.54	IE4	40	S1	1000	4.0682	1071

Motor Speed Torque Data								
Load		FL	l ₁	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	S	10000	61	41	30	25	20	15
TWT Cold	S	10000	122	81	60	45	40	30
Current	pu	1	2	3	4	5	5.5	8.1



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

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