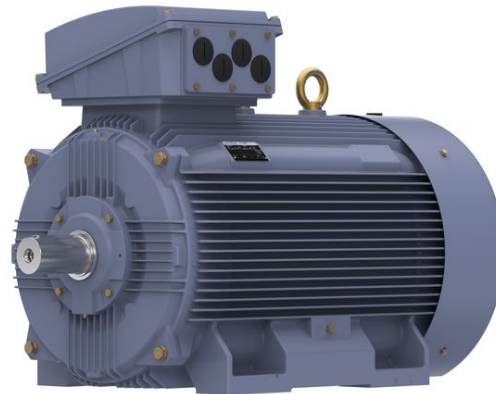


# PRODUCT INFORMATION PACKET

Model No: TCA2502A1111GAC010

Catalog No: TCA2502A1111GAC010

250.0 kW General Purpose Low Voltage IEC Motor, 3 phase, 1500 RPM, 400 V, 355M Frame, TEFC  
Cast Iron IE3 Efficiency Motors





### Nameplate Specifications

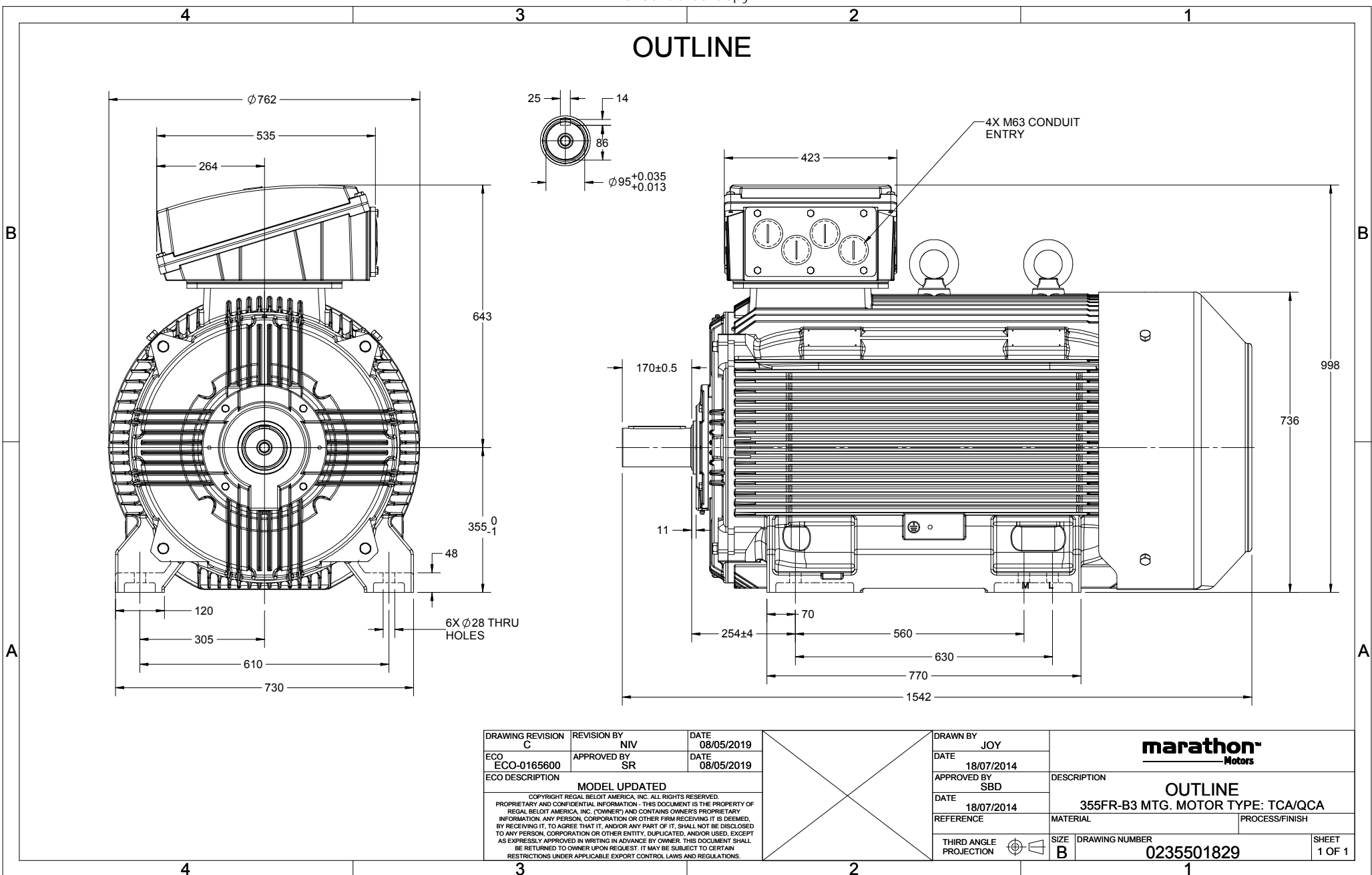
Output HP	335 Hp	Output KW	250.0 kW
Frequency	50 Hz	Voltage	400 V
Current	422.3 A	Speed	1490 rpm
Service Factor	1	Phase	3
Efficiency	96 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Ambient Temperature	40 °C	Drive End Bearing Size	6322
Opp Drive End Bearing Size	6322	UL	No
CSA	No	CE	Yes
IP Code	55		

### Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1542 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Top		
Outline Drawing	0235501829	Connection Drawing	8442000085

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# OUTLINE



DRAWING REVISION C	REVISION BY NIV	DATE 08/05/2019
ECO ECO-0165600	APPROVED BY SR	DATE 08/05/2019
ECO DESCRIPTION MODEL UPDATED		
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DRAWN BY JOY		DESCRIPTION <b>OUTLINE</b> 355FR-B3 MTG. MOTOR TYPE: TCA/QCA
DATE 18/07/2014		
APPROVED BY SBD		
DATE 18/07/2014		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER 0235501829
		SHEET 1 OF 1





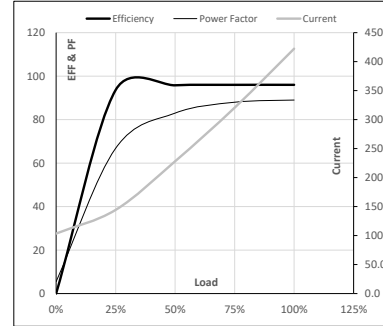
Model No. TCA2502A1111GAC010

Enclosure	U (V)	Δ / Y Conn	f (Hz)	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb (°C)	Duty	Elevation [m]	Inertia [kg·m <sup>2</sup> ]	Weight [kg]
TEFC	400	Δ	50	250	335	422.3	1490	163.29	1601.30	IE3	40	S1	1000	8.4434	1742

**Motor Load Data**

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	103.5	144.3	228.2	320.6	422.3	
Torque	Nm	0.0	398.3	797.8	1198.7	1601.3	
Speed	r/min	1500	1498	1495	1493	1490	
Efficiency	%	0.0	93.6	95.8	96.0	96.0	
Power Factor	%	5.5	66.8	83.0	88.0	89.0	

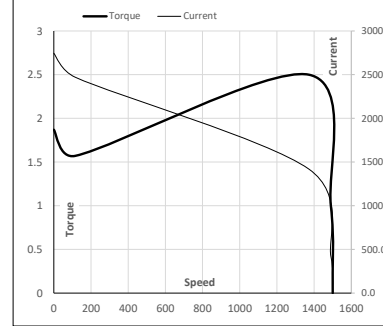
**Performance vs Load Chart**



**Motor Speed Torque Data**

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	115	1371	1490	1500
Current	A	2745.2	2470.7	1420.8	422.3	103.5
Torque	pu	1.9	1.6	2.5	1	0

**Starting Characteristics Chart**



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

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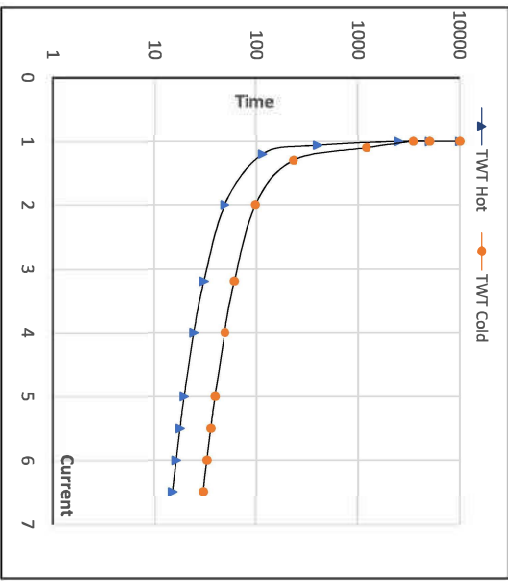
Model No. TCA2502A1111GAC010

Enclosure	U [V]	$\Delta$ / Y Conn	$f$ [Hz]	P [kW]	P [hp]	I [A]	n [rpm]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg·m <sup>2</sup> ]	Weight [kg]
TEFC	400	$\Delta$	50	250	335.0	422.3	1490	163.29	1601.30	IE3	40	S1	1000	8.4434	1742

**Motor Speed Torque Data**

Load	FL	$I_1$	$I_2$	$I_3$	$I_4$	$I_5$	LR
TWT Hot	s	10000	49	33	25	20	18
TWT Cold	s	10000	98	70	49	39	36
Current	pu	1	2	3	4	5	5.5
							6.5

**Thermal Characteristics Chart**



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

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