



Test Report		Cert. No. ATEX Cert. No. LCIE 09 ATEX 1010 IECEX Cert. No. IECEX LCI 09.0012					
Customer:		Date of Issue					
Customer ref.:		Type: M3GP 160MLE 4 Protection Ex nA II T3 Serial no.: Tag no.: Order no.:					
Rating: 3~Motor		Product Code 3GGP 162 450 – _DG					
Insul.cl. F		V	Hz	kW	r/min	A	cos φ
S1		690 Y	50	15	1467	16,2	0,84
IP 55		400 D	50	15	1467	28	0,84
249 kg		660 Y	50	15	1463	16,9	0,85
		380 D	50	15	1463	29,3	0,85
		415 D	50	15	1471	27,6	0,82
		440 D	60	17	1763	28,4	0,85
Resistance		Insulation resistance		Overload test:			
U ₁ -V ₁ 0,349Ω		20000 MΩ 1000 V		1,6 x T _N 15 s			
U ₁ -W ₁ 0,349 "		46 °C					
V ₁ -W ₁ 0,349 "				High-voltage test			
		2400 V 60 s					
Test	Line	f[Hz]	Input	Output			
	U[V]		I[A]	P ₂ [Kw]	n[r/min]	cos φ	η [%]
No-load test	400,0 D	50	11,2	0,453		0,0583	
Locked-rotor test	90,7 D	50	30,2	1,707		0,3601	
Temperature-rise test	399,9 D	50	28,5	16,38	15,0	0,83	91,6
Temperature rise at amb.temp. 25 °C		Temperature rise at amb. temp. 25 °C		Measurement method			
[K] Method		[K] Method		1 Resistance			
Stator winding	51,9 1	Frame	23,4 3	2 Embedded temp. detector			
		Bearing D-end	38,6 3	3 Thermometer			
		Rotor	64,9 3				
<p>These tests have been carried out on motor no. 0915-010296694A, on date 2009-06-16 which is identical in design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p>							
On behalf of customer							
On behalf of manufacturer							
Tested by ABB Oy Motors/Vaasa							