



Type Test Report				Date of issue: 25.11.2016																																													
Customer:				Serial No.:																																													
Customer ref.:				Type: M3BP 160MLC 4 Product Code: 3GBP162430-ADG																																													
Rating:				<table border="1"> <thead> <tr> <th>V</th> <th>Hz</th> <th>kW</th> <th>r/min</th> <th>A</th> <th>cos j</th> <th>Duty</th> </tr> </thead> <tbody> <tr> <td>690</td> <td>Y 50</td> <td>18,5</td> <td>1469</td> <td>20,1</td> <td>0,84</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>18,5</td> <td>1469</td> <td>34,7</td> <td>0,84</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D 50</td> <td>18,5</td> <td>1472</td> <td>34,2</td> <td>0,82</td> <td>S1</td> </tr> <tr> <td>440</td> <td>D 60</td> <td>18,5</td> <td>1771</td> <td>30,9</td> <td>0,85</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>18,5</td> <td>1774</td> <td>30,2</td> <td>0,83</td> <td>S1</td> </tr> </tbody> </table>				V	Hz	kW	r/min	A	cos j	Duty	690	Y 50	18,5	1469	20,1	0,84	S1	400	D 50	18,5	1469	34,7	0,84	S1	415	D 50	18,5	1472	34,2	0,82	S1	440	D 60	18,5	1771	30,9	0,85	S1	460	D 60	18,5	1774	30,2	0,83	S1
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3-Motor Insul.cl.F IP55 Eff class IE2				50Hz : IE2 - 91,4%(100%) - 91,9%(75%) - 91,7%(50%) 60Hz : IE2 - 92,4%(100%)																																													
Resistance Line U ₁ - V ₁ U ₁ - W ₁ V ₁ - W ₁				Ambient: 19,8 °C 0,27740 W 0,27460 W 0,27560 W																																													
Insulation resistance at R > 2000 Mohm				21,9 °C 1000 V																																													
Overload Current 150 % 120s Torque 160 % 15s Speed 120 % 120s				High-voltage test winding 2400 V 60 s																																													
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos j	h [%]																																								
No load test		400 D	50	13,3	0,57		1500	0,06																																									
Locked rotor test		79 D	50	33,8	1,49		0	0,32																																									
Thermal test (100% load)	120,2	400 D	50	35,2	20,27	18,50	1470	0,83	91,28																																								
Partial load points:																																																	
~75% load	90,8	400 D	50	28,0	15,31	14,06	1478	0,79	91,87																																								
~50% load	60,9	400 D	50	21,4	10,35	9,47	1486	0,70	91,55																																								
~25% load	29,6	400 D	50	15,9	5,28	4,63	1493	0,48	87,74																																								
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method																																										
Stator winding :				60,2	1		1 Resistance																																										
Frame :				40,9	2		2 Thermometer																																										
Bearing D-end :				36,5	2		3 Thermocouples																																										
Ambient Temperature :				22	2																																												
These tests have been carried out on motor no. 3GV1110794683005, on date 2012-01-10 which is identical in electrical design with the above.																																																	
Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.																																																	
On behalf of customer																																																	
On behalf of manufacturer				Date of test																																													
Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden						Telephone +46 (0)21 32 90 00 Telefax +46 (0)21 32 90 22																																											

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