



Type Test Report					Date of issue: 24.8.2015																																														
Customer:					Serial No.:																																														
Customer ref.:					Type: M3BP 225SMD 2 Product Code: 3GBP221240-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 φ</th> <th>Duty</th> </tr> </thead> <tbody> <tr> <td>690</td> <td>Y 50</td> <td>80,0</td> <td>2964</td> <td>81,2</td> <td>0,87</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>80,0</td> <td>2964</td> <td>140,0</td> <td>0,87</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D 50</td> <td>80,0</td> <td>2967</td> <td>140,0</td> <td>0,84</td> <td>S1</td> </tr> <tr> <td>440</td> <td>D 60</td> <td>80,0</td> <td>3566</td> <td>124,0</td> <td>0,89</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>80,0</td> <td>3570</td> <td>120,0</td> <td>0,88</td> <td>S1</td> </tr> </tbody> </table>					V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	80,0	2964	81,2	0,87	S1	400	D 50	80,0	2964	140,0	0,87	S1	415	D 50	80,0	2967	140,0	0,84	S1	440	D 60	80,0	3566	124,0	0,89	S1	460	D 60	80,0	3570	120,0	0,88	S1
V	Hz	kW	r/min	A	cos φ	Duty																																													
690	Y 50	80,0	2964	81,2	0,87	S1																																													
400	D 50	80,0	2964	140,0	0,87	S1																																													
415	D 50	80,0	2967	140,0	0,84	S1																																													
440	D 60	80,0	3566	124,0	0,89	S1																																													
460	D 60	80,0	3570	120,0	0,88	S1																																													
Eff class IE2					50Hz : IE2 - 94,4%(100%) - 94,8%(75%) - 94,3%(50%) 60Hz : IE3 - 94,4%(100%)																																														
Resistance Line					Ambient: 19,2 °C U <sub>1</sub> - V <sub>1</sub> 0,03078 Ω U <sub>1</sub> - W <sub>1</sub> 0,03078 Ω V <sub>1</sub> - W <sub>1</sub> 0,03073 Ω																																														
Insulation resistance at 23,4 °C					R > 2000 Mohm 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 φ	η [%]																																										
No load test		400,7 D	50	37,6	1,96		3000	0,08																																											
Locked rotor test		70,2 D	50	131,6	6,20		0	0,39																																											
Thermal test ( 100% load )	257,7	400 D	50	141,2	84,87	80,00	2964	0,87	94,26																																										
Partial load points:																																																			
~75% load	179,8	400 D	50	101,3	59,29	55,97	2972	0,84	94,41																																										
~50% load	121,7	400 D	50	75,0	40,62	38,04	2986	0,78	93,66																																										
~25% load	65,2	400 D	50	52,2	22,55	20,43	2993	0,62	90,56																																										
Temperature rise at rated load.					<table border="1"> <thead> <tr> <th></th> <th>[°C]</th> <th>[K]</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td>Stator winding :</td> <td></td> <td>98,4</td> <td>1</td> </tr> <tr> <td>Frame :</td> <td></td> <td>74,9</td> <td>2</td> </tr> <tr> <td>Bearing D-end :</td> <td></td> <td>58,8</td> <td>2</td> </tr> <tr> <td>Ambient Temperature :</td> <td>23</td> <td></td> <td>2</td> </tr> </tbody> </table>				[°C]	[K]	Method	Stator winding :		98,4	1	Frame :		74,9	2	Bearing D-end :		58,8	2	Ambient Temperature :	23		2	Measurement method																							
	[°C]	[K]	Method																																																
Stator winding :		98,4	1																																																
Frame :		74,9	2																																																
Bearing D-end :		58,8	2																																																
Ambient Temperature :	23		2																																																
					1 Resistance																																														
					2 Thermometer																																														
					3 Thermocouples																																														
<p>These tests have been carried out on motor no. 08 638571 10001, on date 2009-01-13 which is identical in electrical 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> <p>On behalf of customer</p>																																																			
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																																														

Computer print-out valid without signature.