



**Parameter list for the initial operation of VEM PM motors 1500 rpm
from 0,37 KW to 55 KW with Danfoss frequency converter
Automation Drive FC 302**

VEM PM motor	Entity	0.37 kW	0.55 kW	0.75 kW
Type		PE1R 71 G4	PE1R 80 K4	PE1R 80 G4
Motor Number				
IEC installation size		71G	80K	80G
Coolant temperature	°C	50	50	50
Protection type		IP 55	IP55	IP55
Insulation class		F	F	F
Rated voltage	V	310	320	325
Connection		Y	Y	Y
Nominal output	kW	0,37	0,55	0,75
Nominal current	A	0,95	1,25	1,65
Frequency	Hz	50	50	50
Nominal speed	rpm	1500	1500	1500
Nominal torque	Nm	2,4	3,5	4,8
Efficiency factor	cos Phi	0,98	0,98	0,98
Efficiency	%	74	81	82,4
Mode of operation		S1	S1	S1
Maximum torque for two minutes	Nm	7	10	14
Maximum speed	rpm	1500	1500	1500
Line resistance U1-U2	Ohm	26	14,5	9,5
Open-circuit voltage for 1000 rpm	V	175	190	195
Main reactance	Ohm	26,7	23,9	19,2
Stator leakage reactance	Ohm	11	7,5	6
Main inductance	mH	120	100	80
Leakage inductance	mH	35	24	19
Iron loss resistance	Ohm			
Design	IM	IM B5	IM B5	IM B5
Flange I flanges 0	mm	FF 130	FF165	FF165
Shaft end	mm			
Mass moment of inertia	kgm ²	0,0005	0,00087	0,00107

**Parameter list for the initial operation of VEM PM motors 1500 rpm
from 0,37 KW to 55 KW with Danfoss frequency converter
Automation Drive FC 302**

Para Nr.	Danfoss Frequenzumrichter					
	VLT FC - 302					
	Article Number					
	Serial number					
	Power in kW		0.37	0.55	0.75	
00-01	Language		English	English	English	
00-02	Hz/rpm changeover		rpm	rpm	rpm	
01-22	Motor voltage	V	310	320	325	
01-10	Motor type		PM, Non-salient pole	PM, Non-salient pole	PM, Non-salient pole	
01-01	Motor control principle		Flux without sensor	Flux without sensor	Flux without sensor	
01-24	Nominal current motor	A	0,95	1,25	1,65	
01-25	Nominal speed motor	U/min	1500	1500	1500	
01-26	Nominal torque motor	Nm	2,4	3,5	4,8	
01-30	Line resistance/ Stator resistance	Ohm	26	14,5	9,5	
01-37	Main inductance/ Inductance D-axis	mH	120	100	80	
01-39	Number of poles		4	4	4	
01-40	Nominal voltage for speed- 1000 rpm/ G-EMK	V	175	190	195	
01-69	Inertia max	kgm ²	0,005	0,0087	0,0107	
01-68	Inertia min	kgm ²	0,0005	0,00087	0,00107	
01-90	Thermal motor protection		Thermistor Disconnection	Thermistor Disconnection	Thermistor Disconnection	
01-93	Thermistor connection		Connector block 54	Connector block 54	Connector block 54	Connection Thermistor contacts to connector box 50
04-19	Max. output frequency	Hz	60	60	60	
04-13	Max. speed	U/min	1500	1500	1500	
04-14	Max. frequency	Hz	50	50	50	
04-18	Max. current limit of nominal current	%	120	120	120	
04-16	max. torque limit mot.	%	120	120	120	
04-17	max. torque limit gen.	%	120	120	120	
03-41	Ramp up time	sek	10	10	10	
03-42	Ramp down time	sek	10	10	10	
03-03	Max. nominal value	U/min	1500	1500	1500	
03-03	Max. nominal value	Hz	50	50	50	
07-02	P amplification		0,01	0,01	0,01	
07-03	I time	msek	300	300	300	
07-06	T-filter	msek	5	5	5	
14-01	Pulse frequency	kHz	7	7	7	
04-10	Direction of rotation		Both directions	Both directions	Both directions	
05-11	Connector block 19		Revising	Revising	Revising	
05-12	Connector block 27		No operation	No operation	No operation	



**Parameter list for the initial operation of VEM PM motors 1500 rpm
from 0,37 KW to 55 KW with Danfoss frequency converter
Automation Drive FC 302**

VEM PM motor	Entity	1.1 kW	1.5 kW	2.2 KW
Type		PE1R 90 S4	PE1R 90 L4	PE1R 100 L4
Motor Number				
IEC installation size		90	90	100
Coolant temperature	°C	50	50	50
Protection type		IP 55	IP55	IP55
Insulation class		F	F	F
Rated voltage	V	315	305	315
Connection		Y	Y	Y
Nominal output	kW	1,1	1,5	2,2
Nominal current	A	2,4	3,3	4,5
Frequency	Hz	50	50	50
Nominal speed	rpm	1500	1500	1500
Nominal torque	Nm	7	9,5	14
Efficiency factor	cos Phi	0,99	0,99	0,99
Efficiency	%	84,9	86,9	90,5
Mode of operation		S1	S1	S1
Maximum torque for two minutes	Nm	19	28	45
Maximum speed	rpm	1500	1500	1500
Line resistance U1-U2	Ohm	6	3,4	2,1
Open-circuit voltage for 1000 rpm	V	195	190	195
Main reactance	Ohm	11,3	7,7	4,9
Stator leakage reactance	Ohm	2,8	1,7	1,4
Main inductance	mH	45	30	20
Leakage inductance	mH	9	5,5	4,5
Iron loss resistance	Ohm			
Design	IM	IM B5	IM B5	IM B5
Flange I flanQes 0	mm	FF165	FF165	FF215
Shaft end	mm			
Mass moment of inertia	kgm2	0,00207	0,0026	0,004



**Parameter list for the initial operation of VEM PM motors 1500 rpm
from 0,37 KW to 55 KW with Danfoss frequency converter
Automation Drive FC 302**

Para Nr.	Danfoss frequency converter					
	VLT FC - 302					
	Article number					
	Serial number					
	Power in kW		1.1	1.5	2.2	
00-01	Language		English	English	English	
00-02	Hz/rpm changeover		U/min	U/min	U/min	
01-22	Motor voltage	V	315	305	315	
01-10	Motor type		PM, Non-salient pole Flux without sensor	PM, Non-salient pole Flux without sensor	PM, Non-salient pole Flux without sensor	
01-01	Motor control principle					
01-24	Nominal current motor	A	2,4	3,3	4,5	
01-25	Nominal speed motor	rpm	1500	1500	1500	
01-26	Nominal torque motor	Nm	7	9,5	14	
01-30	Line resistance/ Stator resistance	Ohm	6	3,4	2,1	
01-37	Main inductance/ Inductance D-axis	mH	45	30	20	
01-39	Number of poles		4	4	4	
01-40	Nominal voltage for speed- 1000 rpm/ G-EMK	V	195	190	195	
01-69	Inertia max	kgm ²	0,0207	0,026	0,04	
01-68	Inertia min	kgm ²	0,00207	0,0026	0,004	
01-90	Thermal motor protection		Thermistor Disconnection	Thermistor Disconnection	Thermistor Disconnection	
01-93	Thermistor connection		Connector block 54	Connector block 54	Connector block 54	Connection Thermistor contacts to connector box 50
04-19	Max. output frequency	Hz	60	60	60	
04-13	Max. speed	rpm	1500	1500	1500	
04-14	Max. frequency	Hz	50	50	50	
04-18	Max. current limit of nominal current	%	120	120	120	
04-16	max. torque limit mot.	%	120	120	120	
04-17	max. torque limit gen.	%	120	120	120	
03-41	Ramp up time	sek	10	10	10	
03-42	Ramp down time	sek	10	10	10	
03-03	Max. nominal value	rpm	1500	1500	1500	
03-03	Max. nominal value	Hz	50	50	50	
07-02	P amplification		0,01	0,01	0,01	
07-03	I time	msek	300	300	300	
07-06	T-filter	msek	5	5	5	
14-01	Pulse frequency	kHz	7	7	7	
04-10	Direction of rotation		Both directions	Both directions	Both directions	
05-11	Connector block 19		Revising	Revising	Revising	
05-12	Conector block 27		No operation	No operation	No operation	

**Parameter list for the initial operation of VEM PM motors 1500 rpm
from 0,37 KW to 55 KW with Danfoss frequency converter
Automation Drive FC 302**

VEM PM motor	Entity	3 kW	4 kW	5.5 kW
		PE1R 100	PE1R 112	PE1R 132
Type		LX4	M4	S4T
Motor Number				
IEC installation size		100	112	112
Coolant temperature	°C	50	50	50
Protection type		IP 55	IP 55	IP55
Insulation class		F	F	F
Rated voltage	V	335	320	325
Connection		Y	Y	Y
Nominal output	kW	3	4	5,5
Nominal current	A	5,7	7,9	10,6
Frequency	Hz	50	50	75
Nominal speed	rpm	1500	1500	1500
Nominal torque	Nm	19,1	25,5	35
Efficiency factor	cos Phi	0,99	0,99	0,99
Efficiency	%	91,6	92,3	93,1
Mode of operation		S1	S1	S1
Maximum torque for two minutes	Nm	50	70	100
Maximum speed	rpm	1500	1500	1500
Line resistance U1-U2	Ohm	1,5	0,9	0,65
Open-circuit voltage for 1000 rpm	V	215	205	210
Main reactance	Ohm	5	3,3	2,6
Stator leakage reactance	Ohm	1,3	0,8	0,6
Main inductance	mH	20	13	10
Leakage inductance	mH	4	2,5	1,8
Iron loss resistance	IM	IM B5	IM B5	IM B5
Design	mm	FF 215	FF250	FF300
Flange I flanQes 0	mm			
Shaft end	kgm2	0,00725	0,009	0,011
Mass moment of inertia				



**Parameter list for the initial operation of VEM PM motors 1500 rpm
from 0,37 KW to 55 KW with Danfoss frequency converter
Automation Drive FC 302**

Para Nr.	Danfoss frequency converter					
			3	4	5.5	
	VLT FC - 302					
	Article number					
	Serial number					
	Power in KW		3	4	5.5	
00-01	Language		English	English	English	
00-02	Hz/rpm changeover		rpm	rpm	rpm	
01-22	Motor voltage	V	335	320	325	
01-10	Motor type		PM, Non-salient pole Flux without sensor	PM, Non-salient pole Flux without sensor	PM, Non-salient pole Flux without sensor	
01-01	Motor control principle					
01-24	Nominal current motor	A	5,7	7,9	10,6	
01-25	Nominal speed motor	rpm	1500	1500	1500	
01-26	Nominal torque motor	Nm	19,1	25,5	35	
01-30	Line resistance/ Stator resistance	Ohm	1,5	0,9	0,65	
01-37	Main inductance/ Inductance D-axis	mH	20	13	10	
01-39	Number of poles		4	4	4	
01-40	Nominal voltage for speed- 1000 rpm/ G-EMK	V	215	205	210	
01-69	Inertia max	kgm ²	0,0725	0,09	0,11	
01-68	Inertia min	kgm ²	0,00725	0,009	0,011	
01-90	Thermal motor protection		Thermistor Disconnection	Thermistor Disconnection	Thermistor Disconnection	
01-93	Thermistor connection		Connector block 54	Connector block 54	Connector block 54	Connection Thermistor contacts to connector box 50
04-19	Max. output frequency	Hz	60	60	60	
04-13	Max. speed	U/min	1500	1500	1500	
04-14	Max. frequency	Hz	50	50	50	
04-18	Max. current limit of nominal current	%	120	120	120	
04-16	max. torque limit mot.	%	120	120	120	
04-17	max. torque limit gen.	%	120	120	120	
03-41	Ramp up time	sek	10	10	10	
03-42	Ramp down time	sek	10	10	10	
03-03	Max. nominal value	U/min	1500	1500	1500	
03-03	Max. nominal value	Hz	50	50	50	
07-02	P amplification		0,01	0,01	0,01	
07-03	I time	msek	300	300	300	
07-06	T-filter	msek	5	5	5	
14-01	Pulse frequency	kHz	7	7	7	
04-10	Direction of rotation		Both directions	Both directions	Both directions	
05-11	Connector block 19		Revising	Revising	Revising	
05-12	Connector block 27		No operation	No operation	No operation	

**Parameter list for the initial operation of VEM PM motors 1500 rpm
from 0,37 KW to 55 KW with Danfoss frequency converter
Automation Drive FC 302**

VEM PM motor	Entity	7.5 KW	11 KW	15 KW	
Type		PE1 R 132 M 4	PE1 R 160 M4	PE1 R 160 L4	
Motor Number					
IEC installation size		132 M	160M	160L	
Coolant temperature	°C	50	50	50	
Protection type		IP55	IP55	IP55	
Insulation class		F	F	F	
Rated voltage	V	344	331	356	
Connection		Y	Y	Y	
Nominal output	kW	7,5	11	15	
Nominal current	A	14	21	26	
Frequency	Hz	50	50	50	
Nominal speed	rpm	1500	1500	1500	
Nominal torque	Nm	48	70	95,5	
Efficiency factor	cos Phi	0,99	0,99	0,98	
Efficiency	%	93,5	64,1	94,8	
Mode of operation		S1	S1	S1	
Maximum torque for two minutes	Nm	60	87,5	119	
Maximum speed	rpm	1500	1500	1500	
Line resistance U1-U2	Ohm	0,36	0,192	0,131	
Open-circuit voltage for 1000 rpm	V	220	220	228	
Main reactance	Ohm	1,913	1,295	1,159	
Stator leakage reactance	Ohm	0,764	0,47	0,415	
Main inductance	mH	4,38	2,3	3,69	
Leakage inductance	mH	2,37	1,5	1,32	
Iron loss resistance	Ohm	672	470	294	
Design	IM	IM B5	IM B5	IM B5	
Flange I flanQes 0	mm	FF 265	FF 300	FF 300	
Shaft end	mm				
Mass moment of inertia	kgm ²	0,024	0,033	0,068	



**Parameter list for the initial operation of VEM PM motors 1500 rpm
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Automation Drive FC 302**

Para Nr.	Danfoss frequency converter	Power in kW			
		7.5	11	15	
	VLT FC - 302				
	Article number				
	Serial number				
00-01	Language		English	English	English
00-02	Hz/rpm changeover		rpm	rpm	rpm
01-22	Motor voltage	V	344	331	356
01-10	Motor type		PM, Non-salient pole Flux without sensor	PM, Non-salient pole Flux without sensor	PM, Non-salient pole Flux without sensor
01-01	Motor control principle				
01-24	Nominal current motor	A	14	21	26
01-25	Nominal speed motor	U/min	1500	1500	1500
01-26	Nominal torque motor	Nm	48	70	95,5
01-30	Line resistance/ Stator resistance	Ohm	0,36	0,192	0,131
01-37	Main inductance/ Inductance D-axis	mH	4,38	2,3	2,505
01-39	Number of poles		4	4	4
01-40	Nominal voltage for speed- 1000 rpm/ G-EMK	V	220	220	228
01-69	Inertia max	kgm ²	0,24	0,33	0,68
01-68	Inertia min	kgm ²	0,024	0,033	0,068
01-90	Thermal motor protection		Thermistor Disconnection	Thermistor Disconnection	Thermistor Disconnection
01-93	Thermistor connection		Connector block 54	Connector block 54	Connector block 54 Connection Thermistor contacts to connector box 50
04-19	Max. output frequency	Hz	60	60	60
04-13	Max. speed	U/min	1500	1500	1500
04-14	Max. frequency	Hz	50	50	50
04-18	Max. current limit of nominal current	%	120	120	120
04-16	max. torque limit mot.	%	120	120	120
04-17	max. torque limit gen.	%	120	120	120
03-41	Ramp up time	sek	10	10	10
03-42	Ramp down time	sek	10	10	10
03-03	Max. nominal value	U/min	1500	1500	1500
03-03	Max. nominal value	Hz	50	50	50
07-02	P amplification		0,01	0,01	0,01
07-03	I time	msek	300	300	300
07-06	T-filter	msek	5	5	5
14-01	Pulse frequency	kHz	7	7	7
04-10	Direction of rotation		Both directions	Both directions	Both directions
05-11	Connector block 19		Revising	Revising	Revising
05-12	Conector block 27		No operation	No operation	No operation

**Parameter list for the initial operation of VEM PM motors 1500 rpm
from 0,37 KW to 55 KW with Danfoss frequency converter
Automation Drive FC 302**

VEM PM motor	Entity	18.5KW	22 KW	30 KW
		PE1R 180	PE1R 180	PE1R 200
Type		M 4	L 4	L 4
Motor number				
IEC installation size		180 M	180 L	200 L
Coolant temperature	°C	50	50	50
Protection type		IP55	IP 55	IP 55
Insulation class		F	F	F
Rated voltage	V	344	355	365
Connection		Y	Y	Y
Nominal output	kW	18,5	22	30
Nominal current	A	33	36	50,7
Frequency	Hz	50	50	50
Nominal speed	rpm	1500	1500	1500
Nominal torque	Nm	117,8	140	191
Efficiency factor	cos Phi	1	0,98	0,98
Efficiency	%	95	95,4	95,6
Mode of operation		S1	S1	S1
Maximum torque for two minutes	Nm	137	175	218
Maximum speed	rpm	1500	1500	1500
Line resistance U1-U2	Ohm	0,095	0,08	0.056
Open-circuit voltage for 1000 rpm	V	228	227	243
Main reactance	Ohm	0,96	0,89	0,66
Stator leakage reactance	Ohm	0,32	0,32	0,2
Main inductance	mH	3,04	2,84	3,07
Leakage inductance	mH	1,03	0,94	0,65
Iron loss resistance	Ohm			
Design	IM	IM B5	IM B5	IM B5
Flange I flanQes 0	mm	FF300	FF300	FF 350
Shaft end	mm			
Mass moment of inertia	kgm ²	0,079	0,126	0,162



**Parameter list for the initial operation of VEM PM motors 1500 rpm
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Automation Drive FC 302**

Para Nr.	Danfoss Frequenzumrichter					
	VLT FC - 302					
	Article number					
	Serial number					
	Power in kW		18.5	22	30	
00-01	Language		English	English	English	
00-02	Hz/rpm changeover		U/min	U/min	U/min	
01-22	Motor voltage	V	344	355	365	
01-10	Motor type		PM, Non-salient pole Flux without sensor	PM, Non-salient pole Flux without sensor	PM, Non-salient pole Flux without sensor	
01-01	Motor control principle					
01-24	Nominal current motor	A	33	36	50,7	
01-25	Nominal speed motor	rpm	1500	1500	1500	
01-26	Nominal torque motor	Nm	117,8	140	191	
01-30	Line resistance/ Stator resistance	Ohm	0,095	0,08	0.056	
01-37	Main inductance/ Inductance D-axis	mH	1,7	1,89	1,535	
01-39	Number of poles		4	4	4	
01-40	Nominal voltage for speed- 1000 rpm/ G-EMK	V	228	227	243	
01-69	Inertia max	kgm ²	0,79	1,26	1,62	
01-68	Inertia min	kgm ²	0,079	0,126	0,162	
01-90	Thermal motor protection		Thermistor Disconnection	Thermistor Disconnection	Thermistor Disconnection	
01-93	Thermistor connection		Connector block 54	Connector block 54	Connector block 54	Connection Thermistor contacts to connector box 50
04-19	Max. output frequency	Hz	60	60	60	
04-13	Max. speed	rpm	1500	1500	1500	
04-14	Max. frequency	Hz	50	50	50	
04-18	Max. current limit of nominal current	%	120	120	120	
04-16	max. torque limit mot.	%	120	120	120	
04-17	max. torque limit gen.	%	120	120	120	
03-41	Ramp up time	sek	10	10	10	
03-42	Ramp down time	sek	10	10	10	
03-03	Max. nominal value	rpm	1500	1500	1500	
03-03	Max. nominal value	Hz	50	50	50	
07-02	P amplification		0,01	0,01	0,01	
07-03	I time	msek	300	300	300	
07-06	T-filter	msek	5	5	5	
14-01	Pulse frequency	kHz	7	7	7	
04-10	Direction of rotation		Both directions	Both directions	Both directions	
05-11	Connector block 19		Reversierung	Reversierung	Reversierung	
05-12	Connector block 27		No operation	No operation	No operation	

**Parameter list for the initial operation of VEM PM motors 1500 rpm
from 0,37 KW to 55 KW with Danfoss frequency converter
Automation Drive FC 302**

VEM PM motor	Entity	37 KW	45 KW	55 KW
Type		PE1R 225 S 4	PE1R 225 M 4	PE1R 250 M 4
Motor number				
IEC installation size		200 S	200 M	250 M
Coolant temperature	°C	50	50	50
Protection type		IP55	IP 55	IP 55
Insulation class		F	F	F
Rated voltage	V	366	365	367
Connection		Y	Y	Y
Nominal output	kW	37	45	55
Nominal current	A	62	76,6	93
Frequency	Hz	50	50	50
Nominal speed	rpm	1500	1500	1500
Nominal torque	Nm	236	286	350
Efficiency factor	cos Phi	0,97	0,98	0,97
Efficiency	%	95,6	95,7	95,7
Mode of operation		S1	S1	S1
Maximum torque for two minutes	Nm	294	358	420
Maximum speed	rpm	1500	1500	1500
Line resistance U1-U2	Ohm	0,039	0,026	0,019
Open-circuit voltage for 1000 rpm	V	235	233	236
Main reactance	Ohm	0,6	0,5	0,41
Stator leakage reactance	Ohm	0,18	0,14	0,12
Main inductance	mH	1,91	1,6	1,31
Leakage inductance	mH	0,56	0,45	0,37
Design	IM	IM B5	IM B5	IM B5
Flange I flanQes 0	mm	FF 400	FF 400	FF 500
Shaft end	mm			
Mass moment of inertia	kgm2	0,269	0,308	0,517

**Parameter list for the initial operation of VEM PM motors 1500 rpm
from 0,37 KW to 55 KW with Danfoss frequency converter
Automation Drive FC 302**

Para Nr.	Danfoss Frequenzumrichter		Power in kW			
			37	45	55	
	VLT FC - 302					
	Article number					
	Serial number					
00-01	Language		English	English	English	
00-02	Hz/rpm changeover		U/min	U/min	U/min	
01-22	Motor voltage	V	366	365	367	
01-10	Motor type		PM, Non-salient pole	PM, Non-salient pole	PM, Non-salient pole	
01-01	Motor control principle		Flux without sensor	Flux without sensor	Flux without sensor	
01-24	Nominal current motor	A	62	76,6	93	
01-25	Nominal speed motor	rpm	1500	1500	1500	
01-26	Nominal torque motor	Nm	236	286	350	
01-30	Line resistance/ Stator resistance	Ohm	0,039	0,026	0,019	
01-37	Main inductance/ Inductance D-axis	mH	1,235	1,025	0,84	
01-39	Number of poles		4	4	4	
01-40	Nominal voltage for speed- 1000 rpm/ G-EMK	V	235	233	236	
01-69	Inertia max	kgm ²	2,69	3,08	5,17	
01-68	Inertia min	kgm ²	0,269	0,308	0,517	
01-90	Thermal motor protection		Thermistor Disconnection	Thermistor Disconnection	Thermistor Disconnection	
01-93	Thermistor connection		Connector block 54	Connector block 54	Connector block 54	Connection Thermistor contacts to connector box 50
04-19	Max. output frequency	Hz	60	60	60	
04-13	Max. speed	U/min	1500	1500	1500	
04-14	Max. frequency	Hz	50	50	50	
04-18	Max. current limit of nominal current	%	120	120	120	
04-16	max. torque limit mot.	%	120	120	120	
04-17	max. torque limit gen.	%	120	120	120	
03-41	Ramp up time	sek	10	10	10	
03-42	Ramp down time	sek	10	10	10	
03-03	Max. nominal value	rpm	1500	1500	1500	
03-03	Max. nominal value	Hz	50	50	50	
07-02	P amplification		0,01	0,01	0,01	
07-03	I time	msek	300	300	300	
07-06	T-filter	msek	5	5	5	
14-01	Pulse frequency	kHz	7	7	7	
04-10	Direction of rotation		Both directions	Both directions	Both directions	
05-11	Connector block 19		Reversirung	Reversirung	Reversirung	
05-12	Connector block 27		No operation	No operation	No operation	

Information

Supplementary sheet for the initial installation of a frequency converter (DANFOSS) Type: VLT Aqua- Drive FC 300 with permanent magnet motor

This supplementary sheet is an addition to the operation manual and helps to carry out the initial operation.

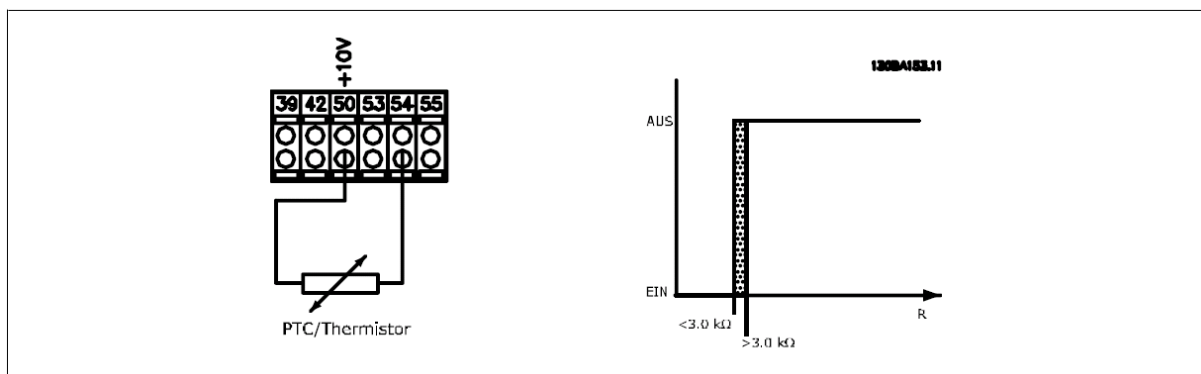
It isn't possible to adjust the permanent magnet motors automatically since the motor can be badly damaged.

For further details look at Programming guide VLT Automation Drive FC 300 (Download: www.danfoss.com)

Keyword: "Automatic motor adjustment" beginning with version MG.33.M7.03

For a safe operation you should connect the thermistor to connector box 50 and 54 (**already preprogrammed in the frequency converter**)

Connection scheme:



Look at the initialized parameter list which you will find enclosed to frequency converter DANFOSS FC 302.

You can download further parameter lists and a link to DANFOSS (→ technical literature) under www.herborner-pumps.com.