

## Horizontal Centrifugal Pumps With Magnetic Coupling TMR



### Operation & Maintenance Instructions

EN

- 02 Read these operation and maintenance instructions before start up!  
To be held for future reference.

## 11. Technical data

### 11.1 Series TMR G2

<b>TMR</b>	<b>50 Hz</b>	<b>06.10</b>						<b>10.10</b>						<b>10.15</b>							
	<b>60 Hz</b>	<b>07.11</b>						<b>07.14</b>						<b>11.15</b>							
∅ Inlet	BSP - NPT	1 1/2"						1 1/2"						1 1/2"							
∅ Outlet	BSP - NPT	1 1/4"						1 1/4"						1 1/4"							
Flange ISO-ANSI-JIS	DNA*	40 - 1 1/2"						40 - 1 1/2"						40 - 1 1/2"							
	DNM *	32 - 1 1/4"						32 - 1 1/4"						32 - 1 1/4"							
Pump	Model	<b>06.10</b>						<b>10.10</b>						<b>10.15</b>							
	Execution	<b>N</b>		<b>P</b>		<b>S</b>		<b>N</b>		<b>P</b>		<b>S</b>		<b>N</b>		<b>P</b>		<b>S</b>			
		WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF		
Power (IEC) 50 Hz	kW	0.55		0.75		1.1		0.75		1.1		1.5		1.1		1.5		2.2			
Frame	IEC	71		80A		80B		80A		80B		90S		80B		90S		90L			
Weight of pump	without motor	kg	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	
		Lb	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	
	IEC	3-pole	kg	10	11	11	12	13	14	11	12	13	14	16	17	13	14	16	17	20	21
		E-exd	kg	18	19	23	24	23	24	23	24	23	24	33	34	23	24	33	34	34	35
1-pole	kg	12	13	14	15	17	18	14	15	17	18	20	21	17	18	20	21	27	28		
Noise	dB	65						70						70							
Max. head	m	11						14.5						18							
Max. capacity	m³/h	17						19						25							
Max. NPSH required	m wc																				
Pump	Model	<b>07.11</b>						<b>07.14</b>						<b>11.15</b>							
	Execution	<b>N</b>		<b>P</b>		<b>S</b>		<b>N</b>		<b>P</b>		<b>S</b>		<b>N</b>		<b>P</b>		<b>S</b>			
		WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF		
Power (IEC) 60 Hz	kW	0.75		1.1		1.5		1.1		1.5		2.2		1.5		2.2		3			
Frame	IEC	80A		80B		90S		80B		90S		90L		90S		90L		100L			
Power (NEMA) 60 Hz	HP	1		1 1/2		2		1 1/2		2		3		2		3		5			
Frame	NEMA	56		143		145		143		145		182		145		182		184			
Weight of pump	without motor	kg	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	
		Lb	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	
	IEC	3-pole	kg	11	12	13	14	16	17	13	14	16	17	20	21	16	17	20	21	25	26
		E-exd	kg	23	24	23	24	33	34	23	24	33	34	34	35	33	34	34	35	44	45
	1-pole	kg	14	15	17	18	20	21	17	18	20	21	27	28	20	21	27	28	-	-	
	NEMA	3-pole	Lb	33	35	35	38	48	50	44	46	48	50	86	88	48	50	86	88	91	94
		E-exd	Lb	33	35	35	38	48	50	44	46	48	50	86	88	48	50	86	88	91	94
		1-pole	Lb	37	39	42	44	73	76	66	69	73	76	106	109	73	76	106	109	-	-
Noise	dB	70						70						70							
Max. head	m	15.5						16.5						22							
Max. capacity	m³/h	15						19.5						24							
Max. NPSH required	m wc																				
Phase	N.	Three-phase (all versions) - AC-current (< 3 kW)																			
Standard voltage IEC	V	400 ± 5% 50 Hz																			
Standard voltage NEMA	V	460 ± 5% 60 Hz																			
Protection level	IP	55																			
Loads (ports section)	kg	max. single strength value F(x;y;z) = 2.5																			
Dynamic loads (base)	kg	6.5																			

## Series TMR G2

<b>TMR</b>	<b>50 Hz</b>	<b>16.15</b>						<b>16.20</b>						<b>02.30</b>									
	<b>60 Hz</b>	<b>11.23</b>						<b>17.25</b>						<b>03.35</b>									
∅ Inlet	BSP - NPT	1 1/2"						1 1/2"						1 1/2"									
∅ Outlet	BSP - NPT	1 1/4"						1 1/4"						1 1/4"									
Flange ISO-ANSI-JIS	DNA*	40 - 1 1/2"						40 - 1 1/2"						40 - 1 1/2"									
	DNM *	32 - 1 1/4"						32 - 1 1/4"						32 - 1 1/4"									
Pump	Model	<b>16.15</b>						<b>16.20</b>						<b>02.30</b>									
	Execution	<b>N</b>		<b>P</b>		<b>S</b>		<b>N</b>		<b>P</b>		<b>S</b>		<b>N</b>		<b>P</b>		<b>S</b>					
		WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF				
Power (IEC) 50 Hz	kW	1.5		2.2		3		2.2		3		-		2.2		3		-					
Frame	IEC	90S		90L		100L		90L		100L		-		90L		100L		-					
Weight of pump	without motor	kg	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4			
		IEC	3-pole		kg		16	17	20	21	25	26	20	21	25	26	34	35	20	21	25	26	34
	E-exd	kg		33	34	34	35	44	45	34	35	44	45	54	55	34	35	44	45	54	55		
	1-pole	kg		20	21	27	28	-	-	27	28	-	-	-	-	27	28	-	-	-	-		
Noise	dB	70						70						70									
Max. head	m	23.5						26.5						31									
Max. capacity	m³/h	26						30						8									
Max. NPSH required	m wc																						
Pump	Model	<b>11.23</b>						<b>17.25</b>						<b>03.35</b>									
	Execution	<b>N</b>		<b>P</b>		<b>S</b>		<b>N</b>		<b>P</b>		<b>S</b>		<b>N</b>		<b>P</b>		<b>S</b>					
		WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF	WR	GF				
Power (IEC) 60 Hz	kW	2.2		3		-		4		-		-		4		-		-					
Frame	IEC	90L		100L		-		112		-		-		112		-		-					
Power (NEMA) 60 Hz	HP	3		5		-		5		-		-		5		-		-					
Frame	NEMA	182		184		-		184		-		-		184		-		-					
Weight of pump	without motor	kg	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4			
		Lb	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9	6.7	8.9			
	IEC	3-pole		kg		20	21	25	26	-	-	34	35	-	-	34	35	-	-	-	-		
		E-exd	kg		34	35	44	45	-	-	54	55	-	-	54	55	-	-	-	-			
		1-pole	kg		27	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	NEMA	3-pole		Lb		86	88	91	94	-	-	91	94	-	-	91	94	-	-	-	-		
		E-exd	Lb		86	88	91	94	-	-	91	94	-	-	91	94	-	-	-	-			
1-pole		Lb		109	109	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Noise	dB	70						74						74									
Max. head	m	28						36						35									
Max. capacity	m³/h	27						30						10									
Max. NPSH required	m wc																						
Phase	N.	Three-phase (all versions) - AC-current (< 3 kW)																					
Standard voltage IEC	V	400 ± 5% 50 Hz																					
Standard voltage NEMA	V	460 ± 5% 60 Hz																					
Protection level	IP	55																					
Loads (ports section)	kg	max. single strength value F(x;y;z) = 2.5																					
Dynamic loads (base)	kg	11																					

## 11.2 Series TMR G3

TMR	50 Hz	20.15			20.20			20.27			20.36		
	60 Hz	21.18			21.25			21.28			21.43		
∅ Inlet	BSP - NPT	2"			2"			2"			2"		
∅ Outlet	BSP - NPT	1 1/2"			1 1/2"			1 1/2"			1 1/2"		
Flange ISO-ANSI-JIS	DNA (mm)	50			50			50			50		
	DNM (mm)	40			40			40			40		
Flange ISO-ANSI-JIS	DNA (Inch)	2"			2"			2"			2"		
	DNM (Inch)	1 1/2"			1 1/2"			1 1/2"			1 1/2"		
Pump	Model	20.15			20.20			20.27			20.36		
	Execution	<b>N</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>P</b>	<b>S</b>
Power (IEC) 50 Hz	kW	2.2	3	4	3	4	5.5	4	5.5	7.5	5.5	7.5	–
Frame Motor	IEC	90L	100L	112M	100L	112M	132SA	112M	132SA	132SB	132SA	132SB	–
Noise	dB	70	70	75	70	75	80	75	80	80	80	80	–
Pump	Model	21.18			21.25			21.28			21.43		
	Execution	<b>N</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>P</b>	<b>S</b>
Power (IEC) 60 Hz	kW	3	4	5.5	4	5.5	7.5	5.5	7.5	–	7.5	–	–
Frame Motor	IEC	100L	112M	132SA	112M	132SA	132SB	132SA	132SB	–	132SB	–	–
Power (NEMA) 60Hz	HP	5	5	7.5	5	7.5	10	7.5	10	–	10	–	–
Frame Motor	NEMA	184T	184T	213T	184T	213T	215T	213T	215T	–	215T	–	–
Noise	dB	70	75	80	75	80	80	80	80	–	80	–	–
Phase	N.	Three-phase											
Standard voltage IEC	V	400 ± 5% 50 Hz											
Standard voltage NEMA	V	460 ± 5% 60 Hz											
Protection level	IP	55											
Loads (protection flange - thread)	kg	max. single strength value $F(x,y;z) = 2.5$											
Loads (protection flange - flange)	kg	max. single strength value $F(x,y;z) = 3.5$											

## Series TMR G3

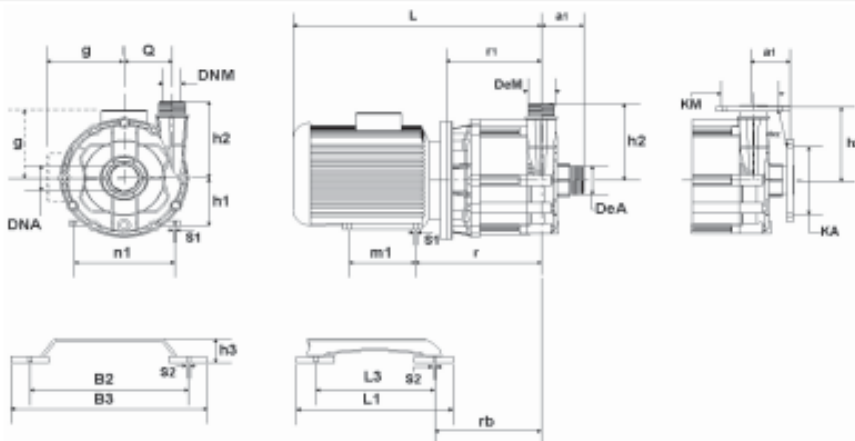
<b>TMR</b>	<b>50 Hz</b>	<b>30.15</b>			<b>30.25</b>			<b>36.30</b>			<b>04.45</b>		
	<b>60 Hz</b>	<b>31.22</b>			<b>31.30</b>						<b>05.55</b>		
∅ Inlet	BSP - NPT	2"			2"			2"			2"		
∅ Outlet	BSP - NPT	1 1/2"			1 1/2"			1 1/2"			1 1/2"		
Flange ISO-ANSI-JIS	DNA (mm)	50			50			50			50		
	DNM (mm)	40			40			40			40		
Flange ISO-ANSI-JIS	DNA (Inch)	2"			2"			2"			2"		
	DNM (Inch)	1 1/2"			1 1/2"			1 1/2"			1 1/2"		
Pump	Model	<b>30.15</b>			<b>30.25</b>			<b>36.30</b>			<b>04.45</b>		
	Execution	<b>N</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>P</b>	<b>S</b>
Power (IEC) 50 Hz	KW	4	5.5	7.5	5.5	7.5	–	7.5	–	–	5.5	7.5	–
Frame Motor	IEC	112M	132SA	132SB	132SA	132SB	–	132SB	–	–	112M	132SA	–
Noise	dB	75	80	80	80	80	–	80	–	–	75	80	–
Pump	Model	<b>31.22</b>			<b>31.30</b>						<b>05.55</b>		
	Execution	<b>N</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>P</b>	<b>S</b>				<b>N</b>	<b>P</b>	<b>S</b>
Power (IEC) 60 Hz	KW	5.5	7.5	–	7.5	–	–				7.5	–	–
Frame Motor	IEC	132SA	132SB	–	132SB	–	–				132SB	–	–
Power (NEMA) 60Hz	HP	7.5	10	–	10	–	–				10	–	–
Frame Motor	NEMA	213T	215T	–	215T	–	–				215T	–	–
Noise	dB	80	80	–	80	–	–				80	–	–
Phase	N.	Three-phase											
Standard voltage IEC	V	400 ± 5% 50 Hz											
Standard voltage NEMA	V	460 ± 5% 60 Hz											
Protection level	IP	55											
Loads (protection flange - thread)	kg	max. single strength value F (x,y,z) = 2.5											
Loads (protection flange - flange)	kg	max. single strength value F (x,y,z) = 3.5											

## 12. Dimensions

### 12.1 Series TMR G2

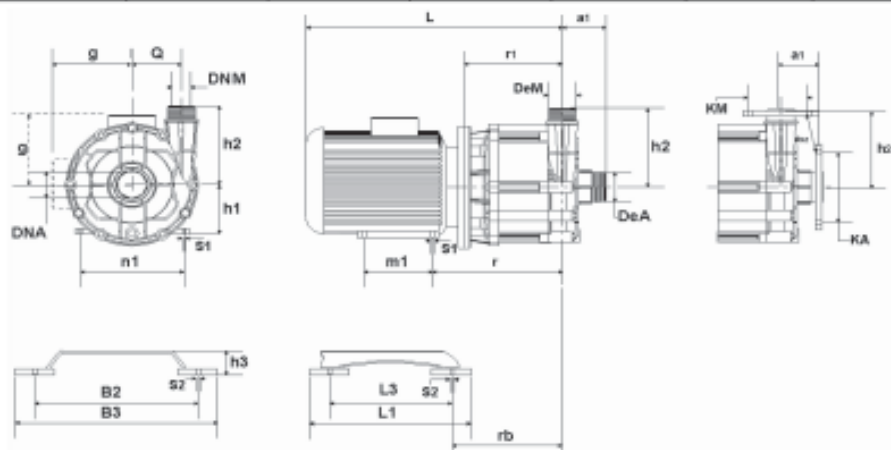
#### IEC-Motors 50 Hz

TMR G2	06.10			10.10			10.15			16.15			16.20		02.30		
IEC-Baugröße / IEC-frame	71	80A	80B	80A	80B	90S	80B	90S	90L	90S	90L	100	90L	100	90L	100	
De M (BSP/NPT)	1 1/4"			1 1/4"			1 1/4"			1 1/4"			1 1/4"		1 1/4"		
De A (BSP/NPT)	1 1/2"			1 1/2"			1 1/2"			1 1/2"			1 1/2"		1 1/2"		
DNM	32			32			32			32			32		32		
DNA	40			40			40			40			40		40		
a1	67			67			67			67			67		67		
L	356	385		385	405		385	405	430	405	430	478	430	478	430		
Q	75			75			75			75			75		75		
h1	71	80		80	90		80	90		90	100		90	100	90		
h2	130			130			130			130			130		130		
r	194	199		199	205		199	205		205	227		205	227	205		
r1	149			149			149			149			164	149	164	149	164
rb	161			161			161			161			176	161	176	161	176
m1	90	100		100	100		100	125		100	125	140	125	140	125		
n1	112	125		125	140		125	140		140	160		140	160	140		
s1	7	8		8			8			8	10		8	10	8		
g	106	110		110	142		110	142		142	155		142	155	142		
L3	185			185			185			185			205	185	205	185	205
B2	248			248			248			248			305	248	305	248	305
S2	14			14			14			14			14		14		
L1	245			245			245			245			265	245	265	245	265
B3	308			308			308			308			365	308	365	308	365
h3	40			40			40			40			40		40		
KM (ISO)	100			100			100			100			100		100		
KA (ISO)	110			110			110			110			110		110		
KM (ANSI)	89			89			89			89			89		89		
KA (ANSI)	98			98			98			98			98		98		
d x z (ISO)	18 x 4			18 x 4			18 x 4			18 x 4			18 x 4		18 x 4		
d x z (ANSI)	16 x 4			16 x 4			16 x 4			16 x 4			16 x 4		16 x 4		



Series TMR G2  
IEC-Motors 60 Hz

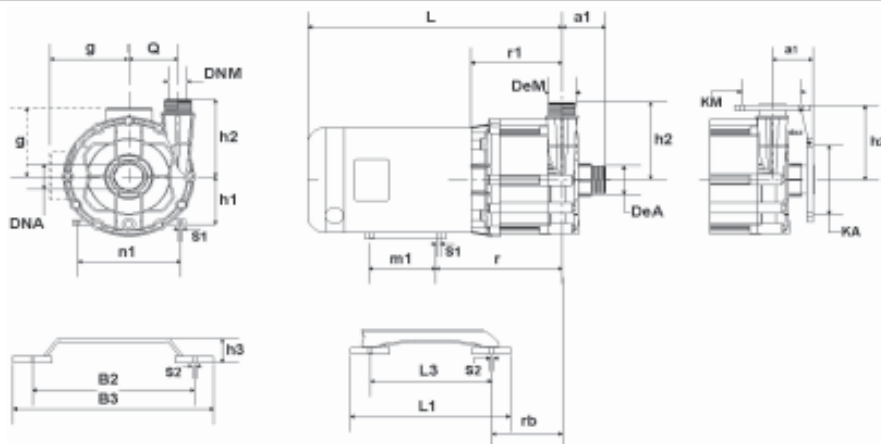
TMR G2	07.11			07.14			11.15			11.23		17.25	03.35
IEC-Baugröße / IEC-frame	80A	80B	90S	80B	90S	90L	90S	90L	100	90L	100	112	112
De M (BSP/INPT)	1 1/4"			1 1/4"			1 1/4"			1 1/4"		1 1/4"	1 1/4"
De A (BSP/INPT)	1 1/2"			1 1/2"			1 1/2"			1 1/2"		1 1/2"	1 1/2"
DNM	32			32			32			32		32	32
DNA	40			40			40			40		40	40
a1	67			67			67			67		67	67
L	385	405	385	405	430	405	430	478	430	478	487	487	
Q	75			75			75			75		75	75
h1	80	90	80	90			90	100		90	100	112	112
h2	130			130			130			130		130	130
r	199	205	199	205			205	227	205	227	234	234	
r1	149			149			149	164	149	164	164	164	
rb	161			161			161	176	161	176	176	176	
m1	100			100	125	100	125	140	125	140	140	140	
n1	125	140	125	140			140	160	140	160	190	190	
s1	8			8			8	10	8	10	10	10	
g	110	142	110	142			142	155	142	155	168	168	
L3	185			185			185	205	185	205	205	205	
B2	248			248			248	305	248	305	305	305	
S2	14			14			14			14		14	14
L1	245			245			245	265	245	265	265	265	
B3	308			308			308	365	308	365	365	365	
h3	40			40			40			40		40	40
KM (ISO)	100			100			100			100		100	100
KA (ISO)	110			110			110			110		110	110
KM (ANSI)	89			89			89			89		89	89
KA (ANSI)	98			98			98			98		98	98
d x z (ISO)	18 x 4			18 x 4			18 x 4			18 x 4		18 x 4	18 x 4
d x z (ANSI)	16 x 4			16 x 4			16 x 4			16 x 4		16 x 4	16 x 4



## Series TMR G2

### NEMA-Motors 60 Hz

TMR G2	07.11		07.14			11.15			11.23		17.25	03.35
NEMA-Baugröße / NEMA-frame	56	145	143	145	182	145	182	184	182	184	184	184
De M (BSP/NPT)	1 1/4"		1 1/4"			1 1/4"			1 1/4"		1 1/4"	1 1/4"
De A (BSP/NPT)	1 1/2"		1 1/2"			1 1/2"			1 1/2"		1 1/2"	1 1/2"
DNM	1 1/4		1 1/4			1 1/4			1 1/4		1 1/4	1 1/4
DNA	1 1/2		1 1/2			1 1/2			1 1/2		1 1/2	1 1/2
a1	2 21/32		2 21/32			2 21/32			2 21/32		2 21/32	2 21/32
L	14 15/16	16 15/16	15 15/16	16 15/16	18 1/2	16 15/16	18 1/2	19 1/2	18 1/2	19 1/2	19 1/2	19 1/2
Q	2 15/16		2 15/16			2 15/16			2 15/16		2 15/16	2 15/16
h1	3 1/2		3 1/2		4 1/2	3 1/2	4 1/2		4 1/2		4 1/2	4 1/2
h2	5 1/8		5 1/8			5 1/8			5 1/8		5 1/8	5 1/8
r	8 7/16	8 1/8	8 1/8	9 3/8	8 1/8	8 1/8	9 3/8	9 3/8	9 3/8	9 3/8	9 5/8	9 5/8
r1	5 7/8		5 7/8		6 5/8	5 7/8	6 5/8		6 5/8		6 5/8	6 5/8
rb	6 11/32		6 11/32		7 1/8	6 11/32	7 1/8		7 1/8		7 1/8	7 1/8
m1	3	5	4	5	4 1/2	5	4 1/2	5 1/2	4 1/2	5 1/2	5 1/2	5 1/2
n1	4 7/8	5 1/2	5 1/2		7 1/2	5 1/2	7 1/2		7 1/2		7 1/2	7 1/2
s1	3/8		3/8		13/32	3/8	13/32		13/32		13/32	13/32
g	5 7/16	5 29/32	6 29/32		7 1/32	5 29/32	7 1/32		7 1/32		7 1/32	7 1/32
L3	7 9/32		7 9/32		8 1/16	7 9/32	8 1/16		8 1/16		8 1/16	8 1/16
B2	9 3/4		9 3/4		12	9 3/4	12		12		12	12
S2	9/16		9/16			9/16			9/16		9/16	9/16
L1	9 21/32		9 21/32		10 3/16	9 21/32	10 3/16		10 3/16		10 3/16	10 3/16
B3	12 1/8		12 1/8		14 1/8	12 1/8	14 1/8		14 1/8		14 1/8	14 1/8
h3	1 9/16		1 9/16			1 9/16			1 9/16		1 9/16	1 9/16
KM (ISO)	3 15/16		3 15/16			3 15/16			3 15/16		3 15/16	3 15/16
KA (ISO)	4 11/32		4 11/32			4 11/32			4 11/32		4 11/32	4 11/32
KM (ANSI)	3 1/2		3 1/2			3 1/2			3 1/2		3 1/2	3 1/2
KA (ANSI)	3 7/8		3 7/8			3 7/8			3 7/8		3 7/8	3 7/8
d x z (ISO)	3/4 x 4		3/4 x 4			3/4 x 4			3/4 x 4		3/4 x 4	3/4 x 4
d x z (ANSI)	5/8 x 4		5/8 x 4			5/8 x 4			5/8 x 4		5/8 x 4	5/8 x 4

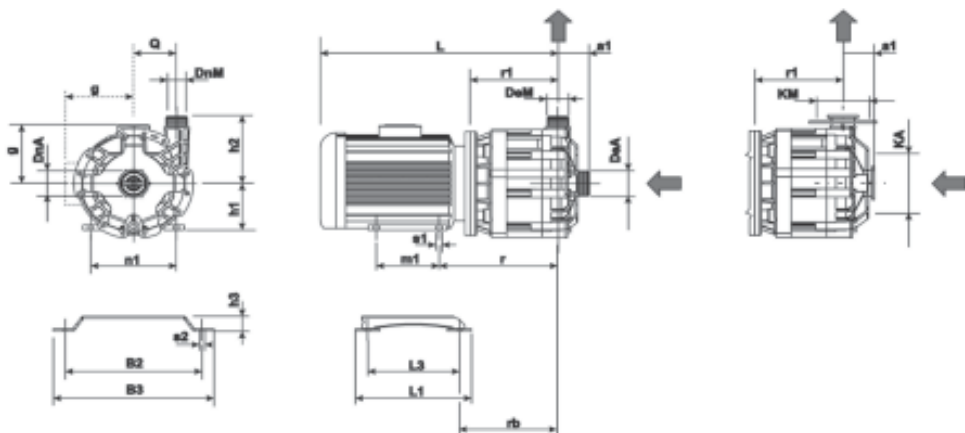




## 12.2 Series TMR G3

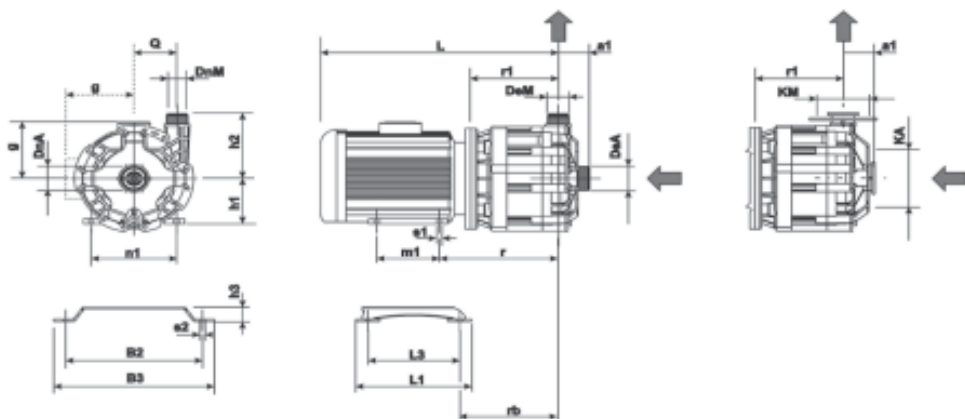
### IEC-Motors 50 Hz

TMR G3	20.15			20.20			20.27			20.36			30.15			30.25			36.30			04.45		
IEC-Bezugsgröße / IEC-Frame	90L	100L	112M	100L	112M	132SA	112M	132SA	132SB	132SA	132SB	112M	132SA	132SB	132SA	132SB	132SB	132SA	132SB	132SB	132SA	132SB		
De M (BSPP/NPT)	1 1/2"			1 1/2"			1 1/2"			1 1/2"			1 1/2"			1 1/2"			1 1/2"			1 1/2"		
De A (BSPP/NPT)	2"			2"			2"			2"			2"			2"			2"			2"		
DNM	40			40			40			40			40			40			40			40		
DNA	50			50			50			50			50			50			60			50		
a1	70			70			70			70			70			70			70			70		
L	489	512	521	512	521	578	521	578	578	578	521	578	578	521	578	578	578	578	578	578	578	578	578	
Q	96			96			96			96			96			96			96			96		
r1	90	100	112	100	112	132	112	132	132	132	112	132	132	112	132	132	132	132	132	132	132	132	132	
r2	180			180			180			180			180			180			180			180		
r	344	261	268	261	268	307	268	307	307	307	268	307	307	268	307	307	307	307	307	307	307	307	307	
r1	188	198		198		218	198	218	218	218	198	218	218	198	218	218	218	218	218	218	218	218	218	
rb	250	210	217	210	217	235	217	235	235	235	217	235	235	217	235	235	235	235	235	235	235	235	235	
mf1	125	140		140		140		140		140		140		140		140		140		140		140		
a1	140	160	190	160	190	216	190	216	216	216	190	216	216	190	216	216	216	216	216	216	216	216	216	
g1	8	10		10		10		10		10		10		10		10		10		10		10		
g	142	155	168	155	168	181	168	181	181	181	168	181	181	168	181	181	181	181	181	181	181	181	181	
L3	185	205		205		263	205	263	263	263	205	263	263	205	263	263	263	263	263	263	263	263	263	
B2	248	305		305		359	305	359	359	359	305	359	359	305	359	359	359	359	359	359	359	359	359	
B2	14			14			14			14			14			14			14			14		
L1	345	265		265		333	265	333	333	333	265	333	333	265	333	333	333	333	333	333	333	333	333	
B3	308	385		385		429	385	429	429	429	385	429	429	385	429	429	429	429	429	429	429	429	429	
h3	55			55			55			55			55			55			55			55		
KM (ISO)	110			110			110			110			110			110			110			110		
KA (ISO)	125			125			125			125			125			125			125			125		
KM (ANSI)	98			98			98			98			98			98			98			98		
KA (ANSI)	121			121			121			121			121			121			121			121		
d x z (ISO)	18 x 4			18 x 4			18 x 4			18 x 4			18 x 4			18 x 4			18 x 4			18 x 4		
d x z (ANSI)	16-19 x 4			16-19 x 4			16-19 x 4			16-19 x 4			16-19 x 4			16-19 x 4			16-19 x 4			16-19 x 4		



**Series TMR G3**  
**IEC-Motors 60 Hz**

TMR G3	21.18			21.25			21.28		21.43		31.22		31.30		05.55	
IEC-Baugröße / IEC-frame	100L	112M	132SA	112M	132SA	132SB	132SA	132SB	132SB	132SA	132SB	132SB	132SB	132SB	132SB	
De M (BSP/NPT)	1 1/2"			1 1/2"			1 1/2"		1 1/2"		1 1/2"		1 1/2"		1 1/2"	
De A (BSP/NPT)	2"			2"			2"		2"		2"		2"		2"	
DNM	40			40			40		40		40		40		40	
DNA	50			50			50		50		50		50		50	
a1	70			70			70		70		70		70		70	
L	512	521	578	521	578	578	578	578	578	578	578	578	578	578	578	
Q	96			96			96		96		96		96		96	
h1	100	112	132	112	132	132	132	132	132	132	132	132	132	132	132	
h2	160			160			160		160		160		160		160	
r	261	266	307	266	307	307	307	307	307	307	307	307	307	307	307	
r1	198		218	198	218	218	218	218	218	218	218	218	218	218	218	
rb	210	217	235	217	235	235	235	235	235	235	235	235	235	235	235	
m1	140			140			140		140		140		140		140	
n1	160	190	216	190	216	216	216	216	216	216	216	216	216	216	216	
e1	10			10			10		10		10		10		10	
g	155	168	181	168	181	181	181	181	181	181	181	181	181	181	181	
L3	205		263	205	263	263	263	263	263	263	263	263	263	263	263	
B2	305		359	305	359	359	359	359	359	359	359	359	359	359	359	
S2	14			14			14		14		14		14		14	
L1	265		333	265	333	333	333	333	333	333	333	333	333	333	333	
B3	365		429	365	429	429	429	429	429	429	429	429	429	429	429	
h3	55			55			55		55		55		55		55	
KM (ISO)	110			110			110		110		110		110		110	
KA (ISO)	125			125			125		125		125		125		125	
KM (ANSI)	98			98			98		98		98		98		98	
KA (ANSI)	121			121			121		121		121		121		121	
d x z (ISO)	16 x 4			16 x 4			16 x 4		16 x 4		16 x 4		16 x 4		16 x 4	
d x z (ANSI)	16-19 x 4			16-19 x 4			16-19 x 4		16-19 x 4		16-19 x 4		16-19 x 4		16-19 x 4	



## Series TMR G3

### NEMA-Motors 60 Hz

TMR G3	21.18		21.25			21.28		21.43	31.22		31.30		05.55
NEMA-Baugröße / NEMA-frame	184T	213T	184T	213T	215T	213T	215T	215T	213T	215T	215T	215T	
De M (BSP/NPT)	1 1/2"		1 1/2"			1 1/2"		1 1/2"	1 1/2"		1 1/2"		
De A (BSP/NPT)	2"		2"			2"		2"	2"		2"		
DNM	1 1/2		1 1/2			1 1/2		1 1/2	1 1/2		1 1/2		
DNA	2		2			2		2	2		2		
a1	2 3/4		2 3/4			2 3/4		2 3/4	2 3/4		2 3/4		
L	20 13/16	23 1/8	20 13/16	23 1/8		23 1/8		23 1/8	23 1/8		23 1/8		
Q	3 3/4		3 3/4			3 3/4		3 3/4	3 3/4		3 3/4		
h1	4 1/8	5 1/4	4 1/4	5 1/4		5 1/4		5 1/4	5 1/4		5 1/4		
h2	6 1/4		6 1/4			6 1/4		6 1/4	6 1/4		6 1/4		
r	10 15/16	11 11/16	10 15/16	11 11/16		11 11/16		11 11/16	11 11/16		11 11/16		
r1	8 1/16	8 11/16	8 1/16	8 11/16		8 11/16		8 11/16	8 11/16		8 11/16		
rb	8 5/8		8 5/8			8 3/4		8 3/4	8 3/4		8 3/4		
m1	5 1/2		5 1/2			7	5 1/2	7	7	5 1/2	7	7	
n1	7 1/2	8 1/2	7 1/2	8 1/2		8 1/2		8 1/2	8 1/2		8 1/2		
s1	13/32		13/32			13/32		13/32	13/32		13/32		
g	7	8	7	8		8		8	8		8		
L3	8 1/16	10 3/8	8 1/16	10 3/8		10 3/8		10 3/8	10 3/8		10 3/8		
B2	12	14 1/8	12	14 1/8		14 1/8		14 1/8	14 1/8		14 1/8		
S2	9/16		9/16			9/16		9/16	9/16		9/16		
L1	10 3/16	13 1/8	10 3/16	13 1/8		13 1/8		13 1/8	13 1/8		13 1/8		
B3	14 1/8	16 7/8	14 1/8	16 7/8		16 7/8		16 7/8	16 7/8		16 7/8		
h3	2 5/32		2 5/32			2 5/32		2 5/32	2 5/32		2 5/32		
KM (ISO)	4 11/32		4 11/32			4 11/32		4 11/32	4 11/32		4 11/32		
KA (ISO)	4 15/16		4 15/16			4 15/16		4 15/16	4 15/16		4 15/16		
KM (ANSI)	3 7/8		3 7/8			3 7/8		3 7/8	3 7/8		3 7/8		
KA (ANSI)	4 3/4		4 3/4			4 3/4		4 3/4	4 3/4		4 3/4		
d x z (ISO)	3/4 x 4		3/4 x 4			3/4 x 4		3/4 x 4	3/4 x 4		3/4 x 4		
d x z (ANSI)	5/8-3/4 x 4		5/8-3/4 x 4			5/8-3/4 x 4		5/8-3/4 x 4	5/8-3/4 x 4		5/8-3/4 x 4		

