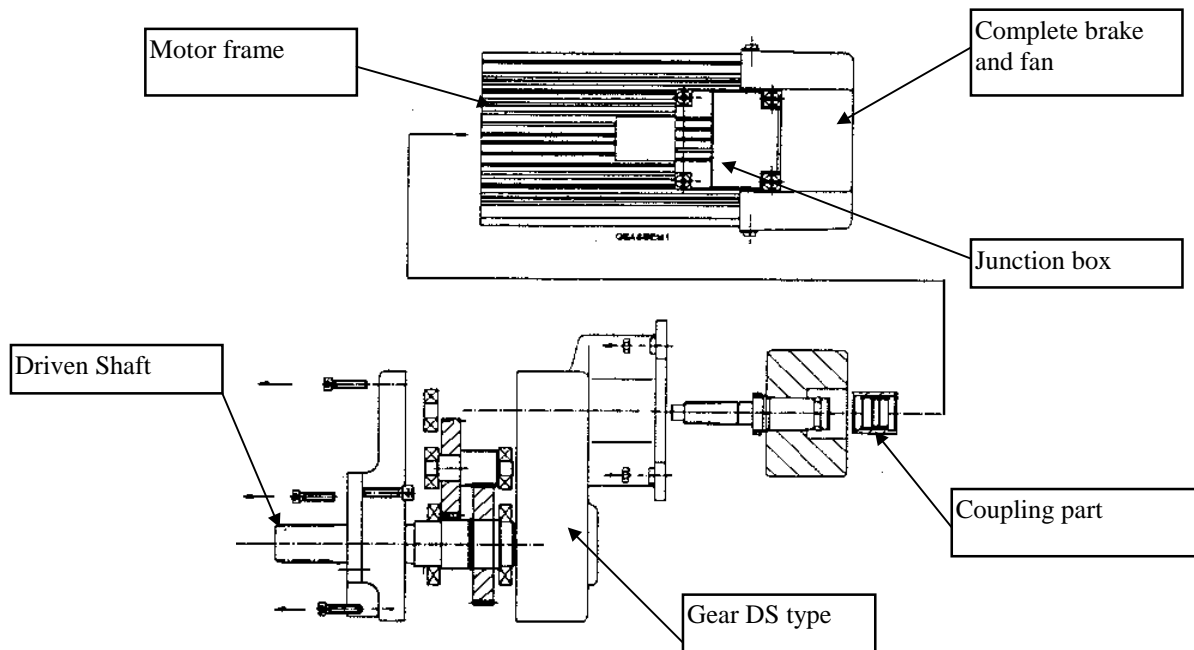


## TRAVELING MOTORS

19

### 1) DESCRIPTION

Drive consists of interchangeable motor and brake, and with different ratio gearbox combinations. Due to the modular design the motor can be replaced without dismounting the gearbox from end carriage.



## TRAVELING MOTORS

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### 2) MOTORS

All motors incorporate class F insulation and an IP55 degree of protection as standard. The stator frame is made of extruded aluminum profile to maximize the dissipation of heat. The frame has black anodized finish.

Characteristics of traveling motors (50 hertz):

Motor type (50 hertz)	Power	Synchron ous speed	Max. torque	Starting torque	Electric braking torque	Short time duty High/ slow	Braking torque
Unit	kW	RPM	Nm	Nm	Nm	min	Nm
MF07LA104	0.25/0.06	3000/750	2.2/1.4	2.2/1.4	2.8/2.7	cont./50	2
MF07LB104	0.45/0.11	3000/750	3.3/2.4	3.3/2.4	5.7/5.1	cont./30	2.6
MF07ZC104	0.65/0.15	3000/750	5.3/3.5	5.2/3.5	10.7/9.2	cont./20	4
MF09LB206	0.65/0.15	1500/500	9.7/6.8	8.8/6.8	18.2/12.5	30/30	9
MF10L-206	1.1/0.35	1500/500	16.7/12.8	14.8/12.8	27.7/20.6	30/15	16
MF09LB104	1.3/0.3	3000/750	8/7.5	8/7	23.8/14	cont./60	9
MF10L-104	2.2/0.55	3000/750	18/12	18/12	48.1/21.6	30/20	16
MF11LB-206	1.8/0.5	1500/500	30/22	24/22	48/31		30

Characteristics of traveling motors (60 hertz):

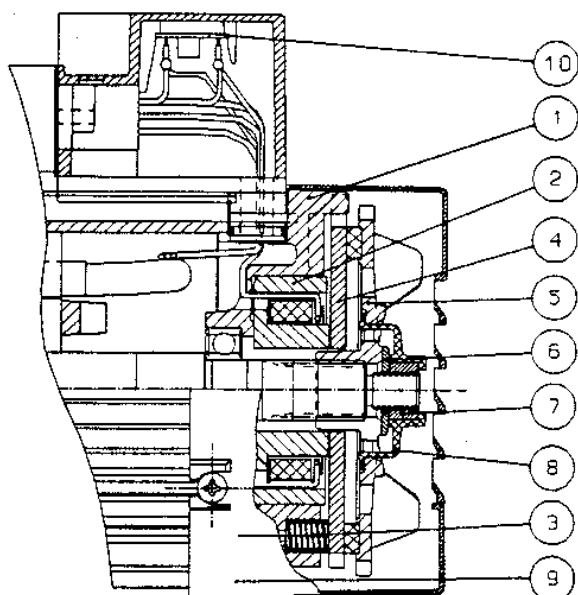
Motor type (60 hertz)	Power	Synchron ous speed	Max. torque	Starting torque	Electric braking torque	Short time duty High/ slow	Braking torque
Unit	HP	RPM	Nm	Nm	Nm	min	Nm
MF07LA104	0.5/0.1	3600/900	2.3/1.4	2.3/1.4	2.8/2.7	30/30	2
MF07LB104	0.75/0.18	3600/900	3.3/2.2	3.3/2.2	5.7/5.1	30/30	2.6
MF07ZC104	1/0.24	3600/900	5.8/3.5	5.7/3.5	10.7/9.2	30/15	4
MF09LB206	1/0.24	1800/600	9.5/6.7	8.6/6.7	18.2/12.5	30/30	9
MF10L-206	1.75/0.53	1800/600	15.7/12.6	13.9/12.6	27.7/20.6	30/15	16
MF09LB104	2/0.5	3600/900	8/7.5	8/7	23.8/14		9
MF10L-104	3.3/0.8	3600/900	17.7/12	17.7/12	48.1/21.6	30/20	16
MF11LB-206	2.9/0.9	1800/600	30/22	24/22	48/31		30

## TRAVELING MOTORS

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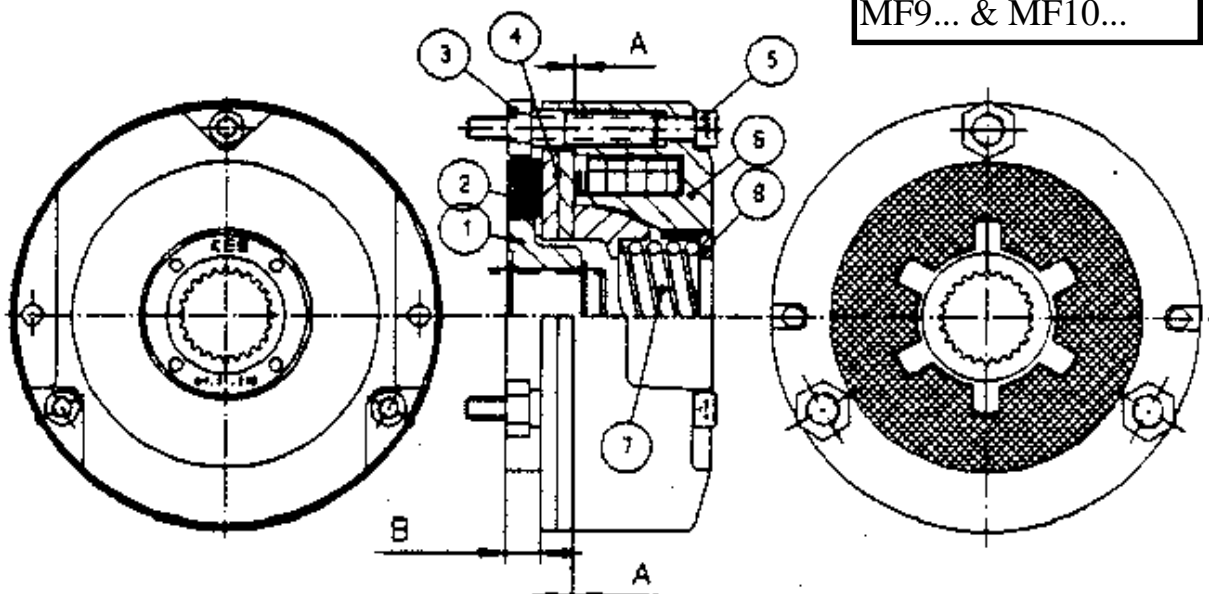
### 3) BRAKES

MF07 ...



- |                  |                    |
|------------------|--------------------|
| 1 - End shield   | 2 - Brake magnet   |
| 3 - Brake spring | 4 - Armature disc  |
| 5 - Brake wheel  | 6 - Washer         |
| 7 - Nut          | 8 - Locking device |
| 9 - Fan cover    | 10 - Rectifier     |

MF9... & MF10...



- |                     |                            |
|---------------------|----------------------------|
| 1 - brake disc      | 2 - Friction disc          |
| 3 - adjustment nut  | 4 - armature disc          |
| 5 - retaining screw | 6 - brake magnet           |
| 7 - brake spring    | 8 - torque adjustment ring |

## TRAVELING MOTORS

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### 3) BRAKES

Springs hold the brake closed until coil is energized and the brake opens. The brake closes immediately in case of power failure.

Motor type	Brake type	brake torque (Nm)	Lining thickness (mm)	min. lining thickness (mm)	Nominal air gap (mm)	Max allowable air gap (mm)
MF07LA104	NM311	2	4	0.9	0.4	0.9
MF07LB104	NM312	2.6	4	0.9	0.4	0.9
MF07ZC104	NM313	2.6	4	0.9	0.4	0.9
MF09	NM34003	4	9	5.3	0.2	0.5
MF09	NM34003A	9	9	5.3	0.2	0.5
MF09	NM34004	16	12	7.3	0.2	0.5
MF10	NM34005	16	12	6	0.3	0.7
MF10	NM34005A	32	12	6	0.3	0.7

### 4) GEARS

All gears run on life time lubricated bearings in a totally enclosed aluminum gearbox with semi-fluid grease lubrication.

Main characteristics:

GEAR	MOTOR POWER Max. (50 Hz) kW	Ratio available min-max	DRIVEN SHAFT		
			D (mm)	specification	Type
DS1	0.2	9-20	25	pin	C
DS3	0.45	7-80	25	pin	C
DS4	0.45	7-50	25	pin	C
DS2	0.25	20-63	21.8	W22*1.25*16*8f DIN5480	SPLINE
DS3	0.45	9-80	29.7	W30*1.5*18*8f DIN5480	SPLINE
DS4	0.45	20-50	29.7	W30*1.5*18*8f DIN5480	SPLINE
TM4	0.75	28-90	45.5	N45*2*21 DIN5480	HOLLOW with SPLINE
TM5	5.0	14-90	45.5	N45*2*21 9H DIN5480	HOLLOW with SPLINE