6"
50 Hz - 2900 rpm

Sarılabilir Motorlar
Rewindable Motors

Ferat
Dalgıç Motorları • Submersible Motors

Performans Verileri • Performance Datas

Motor Tipi Motor Type	Motor Gücü Motor Power		Voltaj Voltage	Devir Rotational Speed	Nominal Akım Nominal Current	Kalkış Akımı Starting Current	Verim Efficiency [η %]			Güç Faktörü Power Factor [Cos Ø]		
	P_N		U_N	n_N	I_N	I_A	% load			% load		
	kW	HP	[V]	[rpm]	[A]	[A]	50 %	75 %	100 %	50 %	75 %	100 %
FM6/4	3	4	380	2869	7,7	25	71,0	75,0	76,0	0,59	0,71	0,78
			400	2887	7,8	28	68,0	73,0	76,0	0,53	0,65	0,73
			415	2899	7,9	30	65,0	72,0	76,0	0,50	0,61	0,69
FM6/6	4,5	6	380	2869	11,5	40	71,0	75,0	76,0	0,59	0,71	0,78
			400	2887	11,6	42	68,0	73,0	76,0	0,53	0,65	0,73
			415	2899	11,7	45	65,0	72,0	76,0	0,50	0,61	0,69
FM6/7,5	5,5	7,5	380	2857	13,7	48	74,0	76,0	75,0	0,66	0,76	0,81
			400	2877	13,3	51	72,0	76,0	76,0	0,61	0,72	0,79
			415	2890	13,4	53	71,0	75,0	75,0	0,58	0,70	0,76
FM6/10	7,5	10	380	2876	18,3	59	77,0	78,0	76,0	0,69	0,78	0,82
			400	2893	17,7	63	75,0	78,0	77,0	0,64	0,74	0,80
			415	2903	17,7	65	73,0	77,0	77,0	0,60	0,72	0,78
FM6/12,5	9,3	12,5	380	2872	22,0	74	79,0	80,0	78,0	0,70	0,78	0,82
			400	2888	21,4	78	78,0	79,0	78,0	0,63	0,74	0,80
			415	2899	21,2	81	76,0	79,0	78,0	0,59	0,71	0,78
FM6/15	11	15	380	2879	25,8	93	78,0	80,0	78,0	0,70	0,78	0,83
			400	2894	25,2	98	77,0	80,0	79,0	0,64	0,74	0,81
			415	2903	25,1	102	75,0	78,0	79,0	0,60	0,72	0,78
FM6/17,5	13	17,5	380	2882	30,1	118	80,0	81,0	80,0	0,67	0,77	0,82
			400	2897	29,6	125	78,0	80,0	80,0	0,60	0,72	0,79
			415	2906	29,7	130	76,0	79,0	80,0	0,56	0,69	0,76
FM6/20	15	20	380	2873	33,9	140	81,0	82,0	81,0	0,70	0,79	0,83
			400	2889	33,1	148	79,0	81,0	81,0	0,64	0,75	0,81
			415	2899	33,0	154	77,0	80,0	81,0	0,59	0,72	0,79
FM6/25	18,5	25	380	2863	42,3	172	81,0	82,0	81,0	0,67	0,76	0,82
			400	2880	42,0	182	78,0	81,0	81,0	0,60	0,72	0,78
			415	2891	42,5	189	76,0	79,0	80,0	0,56	0,69	0,75
FM6/30	22	30	380	2868	49,1	218	82,0	84,0	83,0	0,67	0,76	0,82
			400	2884	49,0	231	80,0	82,0	83,0	0,60	0,71	0,78
			415	2896	49,6	240	77,0	81,0	82,0	0,55	0,68	0,75
FM6/35	26	35	380	2864	57,5	268	83,0	84,0	83,0	0,67	0,76	0,83
			400	2881	56,7	284	81,0	83,0	83,0	0,60	0,71	0,80
			415	2891	57,3	296	78,0	82,0	82,0	0,55	0,68	0,77
FM6/40	30	40	380	2838	66,4	328	82,0	84,0	83,0	0,66	0,76	0,83
			400	2858	66,4	347	80,0	83,0	83,0	0,59	0,71	0,79
			415	2871	67,5	361	77,0	81,0	82,0	0,54	0,67	0,76
FM6/50	37	50	380	2833	82,0	409	83,0	84,0	83,0	0,66	0,76	0,83
			400	2854	81,9	433	80,0	83,0	83,0	0,59	0,70	0,79
			415	2867	83,9	450	77,0	81,0	82,0	0,54	0,67	0,75
FM6/60	45	60	380	2805	97,4	499	84,0	85,0	84,0	0,67	0,77	0,84
			400	2830	97,0	521	81,0	84,0	84,0	0,60	0,71	0,80
			415	2845	99,4	560	78,0	82,0	83,0	0,55	0,78	0,76

Standart Motor Özellikleri

- 3x380V-400V-415V - 50 Hz - 2 Kutuplu
- Gerilim Toleransı = - %10 U_N / +%6 U_N
- Motor Devir Toleransı = ± % 0,5
- Maksimum Kum Miktarı = 50 g / m^3
- Maksimum Su Sıcaklığı = 30 °C
- Minimum Soğutucu Akış Hızı;
  3 kW - 15 kW V = 0,2 m/s
  18,5 kW - 45 kW V = 0,5 m/s
- Servis Faktörü (S.F.) = 1
- Çalışma Rejimi (IEC 60034-1) = S1
- Verimlilik Sınıfı (IEC 60034-30) = IE1
- İzolasyon Sınıfı (IEC 60085) = Y
- Soğutma Şekli (IEC 60034-6) = IC40
- Koruma Sınıfı (IEC 60034-5) = IP68
- Düşey ve Yatay Konumda Çalışabilme
- Her İki Yönde Çalışabilme (CW / CCW)
- Frekans Konvertörü ile İstenen Devirde Çalıştırılabilme (30 Hz Üzerinde)
- Soft-Starter ile Kalkışa Uygun Motor
- Yeniden Sarılabilir Sargı
- PPC Bobin Teli
- PVC Enerji Çıkış Kablosu
- **6" NEMA** Standartlarında Mil Ucu ve Baglantı Flanşı
- Seramik-Karbon Mekanik Salmastra (IP68)
- AISI 420 Mekanik Salmastra Kapağı
- AISI 304 Motor Gövdesi
- AISI 304 Rotor Mil Ucu
- St37 Statör Flanşları
- GG20 Döküm Motor Kapakları
- Su ile Soğutmalı Sistem
- Su + Antifiriz (Propilen Glikol) Karışımı ile Doldurulur (Donma Noktası -15 °C)
- Maksimum Depolama Sıcaklıkları ; -15 °C / +60 °C
- AISI 304 Su Doldurma Tapası
- **IEC EN 60034-1** ve **NEMA MG1** Standartlarında Tolerans

Opsiyonel Özellikleri

- Farklı Gerilim ve Frekans Değerlerine Uygun Motor Tasarımı
- PT100 Isı Sensörü
- Emaye - PE2+PA Bobin Teli
- Sıcak Su Uygulamaları İçin Bobin Teli (Maksimum 70 °C)
- Yol Verme Şekli; Direkt veya Yıldız - Üçgen
- Enerji Kablosu Boyu (Maksimum 10 m)
- Özel Döküm Motor Kapakları (AISI 304) - (AISI 316) - (Bronz ASTM B145 - 4A)
- Silisyum - Silisyum Mekanik Salmastra (IP68)
- Özel Mekanik Salmastra Kapağı (AISI 304) - (AISI 316) - (Bronz ASTM B145 - 4A)
- Kauçuk Çıkış Kablosu
- AISI 316 Motor Gövde
- AISI 316 Rotor Mil Ucu
- AISI 304 - AISI 316 Statör Flanşları
- Basınç Dengeleyici Çekvalf (Bronz ASTM B145 - 4A)

Sarılabilir Motorlar
Rewindable Motors

6"
50 Hz - 2900 rpm

Teknik Özellikler • Technical Specifications

Motor Tipi Motor Type	Motor Gücü Motor Power P_N		Bobin Teli Winding Wire	Yol Verme Starting	Motor Kablosu Motor Cable	Kablo Uzunluğu Cable Lenght	Maks. Kalkış Max. Start	Eksenel Yük Axial Thrust	Motor Çapı Motor Dia.	Motor Boyu Motor Length (L_M)	Motor Ağırlığı Motor Weight (W_M)
	kW	HP			[mm^2]	[m]	[start/h]	[kN]	[mm]	[mm]	[kg]
FM6/4	3	4	PPC	D.O.L.	3x2,5	3	20	20	Ø 143	662,0	43,0
FM6/6	4,5	6	PPC	D.O.L.	3x2,5	3	20	20		675,0	45,4
FM6/7,5	5,5	7,5	PPC	D.O.L.	3x2,5	3	20	20		699,0	46,3
FM6/10	7,5	10	PPC	D.O.L.	3x2,5	3	20	20		779,0	54,0
FM6/12,5	9,3	12,5	PPC	D.O.L.	3x2,5	3	20	20		819,0	58,6
FM6/15	11	15	PPC	D.O.L.	3x2,5	3	20	20		872,0	64,1
FM6/17,5	13	17,5	PPC	D.O.L.	3x4	3	20	20		932,0	69,8
FM6/20	15	20	PPC	D.O.L.	3x4	3	20	20		994,0	76,4
FM6/25	18,5	25	PPC	λ / Δ	3x4	2x3	20	20		1027,0	80,6
FM6/30	22	30	PPC	λ / Δ	3x4	2x4	20	27,5		1143,0	93,0
FM6/35	26	35	PPC	λ / Δ	3x4	2x4	20	27,5		1183,0	98,4
FM6/40	30	40	PPC	λ / Δ	3x4	2x5	20	27,5		1253,0	106,5
FM6/50	37	50	PPC	λ / Δ	3x6	2x5	15	27,5		1353,0	116,6
FM6/60	45	60	PPC	λ / Δ	3x6	2x5	15	27,5		1413,0	122,7

Standard Motor Features

- 3x380V-400V-415V - 50 Hz - 2 Poles
- Voltage Tolerance = - %10 U_N / +%6 U_N
- Motor Rotational Speed Tolerance = ± % 0,5
- Maximum Sand Amount = 50 g / m^3
- Maximum Water Temperature = 30 °C
- Minimum Coolant Flow Velocity;
  3 kW - 15 kW V = 0,2 m/s
  18,5 kW - 45 kW V = 0,5 m/s
- Service Factor (S.F.) = 1
- Duty Type (IEC 60034-1) = S1
- Efficiency Class (IEC 60034-30) = IE1
- Insulation Class (IEC 60085) = Y
- Cooling Type (IEC 60034-6) = IC40
- Protection Class (IEC 60034-5) = IP68
- Able to Work Vertically or Horizontally
- Rotation on Both Sides (CW / CCW)
- Variable Operation Revolutions by Frequency Convertor (Over 30 Hz)
- Availability to be Operated by Soft-Starter
- Rewindable Windings
- PPC Coil Wire
- PVC Output Power Cable
- Shaft End and Connection Flange in **6" NEMA** Standarts
- Ceramic - Carbon Mechanical Seal (IP68)
- AISI 420 Mechanical Seal Cover
- AISI 304 Motor Body
- AISI 304 Rotor Shaft End
- St37 Stator Flanges
- GG20 Cast Iron Motor Covers
- Water Cooling System
- Filled with Water + Antifreeze (Propylene Glycol) Mixture (Freezing Point -15 ° C)
- Maximum Storage Temperature ; -15 °C / +60 °C
- AISI 304 Plug
- Tolerance in **IEC EN 60034-1** and **NEMA MG1** Standards

Optional Features

- Motor Design to Work in Different Voltage and Frequency
- PT100 Temperature Sensor
- Enamel - PE2+PA Windings Wire
- Windings Wire for Hot Water Application (Maximum 70 °C)
- Starting; Direct (D.O.L.) or Star-Delta (S-D)
- Energy Cable Length (Maximum 10 m)
- Special Casting Motor Covers (AISI 304) - (AISI 316) - (Bronze ASTM B145 - 4A)
- Silicon - Silicon Mechanical Seal (IP68)
- Special Mechanical Seal Cover (AISI 304) - (AISI 316) - (Bronze ASTM B145 - 4A)
- Rubber Output Cable
- AISI 316 Motor Body
- AISI 316 Rotor Shaft End
- AISI 304 - AISI 316 Stator Flanges
- Pressure Balancer Check Valve (Bronze ASTM B145 - 4A)