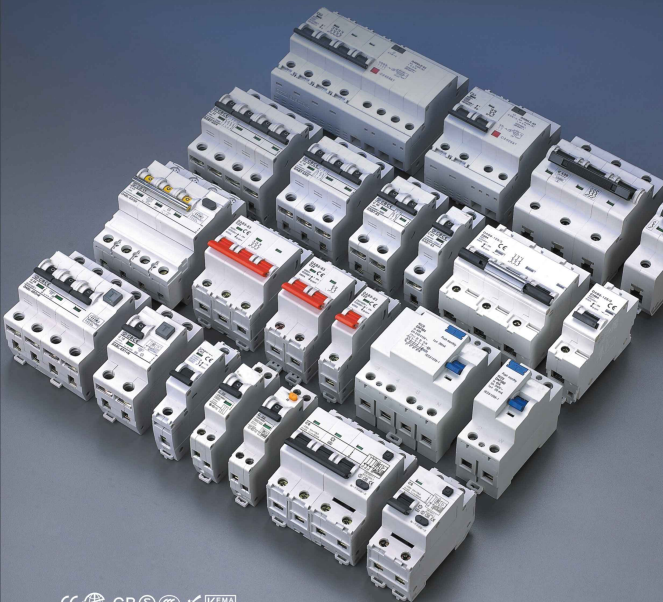




DAB7-63系列小型断路器 DAB7-63 MCB Miniature Circuit Breaker



适用范围
Applicable scope

DAB7-63系列小型断路器符合GB10963、IEC60898标准,具有性能稳定,精确保护,分闸时间短,分断指标高,体积小等特点,广泛用于接触器,继电器及其它电器设备的过载保护。

DAB7-63series high break mini circuit breaker(MCB)conforms to GB10963. IEC60898 standard, MCB has the characteristic of reliable performance, precise protective function, short release time, and high break capacity, small volume as well, It widely used in and overload of contactor, switchgear and electric apparatus.

型号及规格
Type and specification



技术参数 Technical parameter

符合标准:	IEC60898, GB10983
额定电压 (U _e):	230V/400V, 50Hz
N级:	6KA
H型:	10KA
选择等级:	3
封闭式防护等级:	IP40 (安塞后)
寿命: 电动:	不少于8000次的开闭。
手动:	手动操作不少于20000次的开闭。

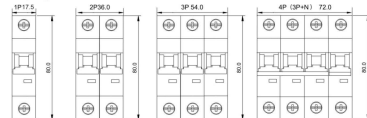
Conform to standard:	IEC60898, GB10963
Rated voltage (U _e):	230V/400V, 50Hz
N type:	6kA
H type:	10kA
Selective grade:	3
Enclosed protection class:	IP40 (Under mounting)
Life Electrical:	not less of 8,000 times switching operation
Mechanical:	not less of 20,000 times switching operation

Mechanical parameter

外壳长度:	45mm
外壳高度:	80mm
外壳宽度:	17.5mm 每极 (单极)
安装方式:	采用35mmIEC标准
接线方式:	有两种接线方式, 直接与连接板接线, 或者用铜导线(软硬皆可)接线
接线端适用尺寸:	连接板的厚度 0.8~2mm 铜导线截面积 1~25mm ²

The length of exposed plane:	45mm
Enclosure height:	89mm
Enclosure width:	17.5mm per pole (single pole)
Mounting manner:	Adopt conduct rail of 35mm of IEC standard
Terminal shape:	Two-function terminal can connect with busbar and soft or hard conducting wire
Terminal block capacity:	Conducting wire 1~25mm ² Busbar thickness: 0.8~2mm

安裝尺寸
Mounting Size



MCB DAB7-63

常规配电保护 (IEC/EN 60898-1)
For protection of general power distribution (IEC/EN 60898-1)

极数 Poles	1P	2P	3P	4P
电气性能 Electrical performance				
功能 Functions	短路保护, 过载保护, 隔离, 控制 short circuit protection, overload protection, isolation, control			
额定频率 Rated frequency f Hz	50-60Hz			
额定工作电压 Rated working voltage Ue V AC	230/400	400		
额定电流 Rated current In A	6, 10, 16, 20, 25, 32, 40, 50, 63			
额定绝缘电压 Rated insulated voltage Ui V	500			
耐冲击电压 Impulse withstand voltage Uimp kV	4			
瞬时脱扣类型 Instantaneous tripping type	DAB7-63N	B/C/D	B/C/D	
额定分断能力 Rated short circuit Icn(kA)	DAB7-63N	6	B/C/D	
	DAB7-63H	10		
脱扣类型 Release type	热磁式 Thermal magnetic type			
使用寿命 Service life (O-C)	机械 Mechanical	实际值 Actual value	20000	
	电气 Electrical	标准值 Standard value	4000	
		实际值 Actual value	8000	
		标准值 Standard value	4000	
连接与安装 Connection and installation				
防护等级 Protection degree	IP20			
电线 Wire	mm ²	1-35		
工作温度 Working temperature	-5 ~ +40°C			
阻燃等级 Resistance to humidity and heat	等级2 Class 2			
海拔高度 Altitude above sea	≤2000			
相对湿度 Relative humidity	+20°C, ≤90%; +40°C, ≤50%			
污染等级 Pollution degree	2			
安装环境 Installation environment	避免明显的冲击和震动 Avoid obvious shock and vibration			
安装等级 Installation class	等级 II Class II, 等级 III Class III			
导轨 Mounting	DIN35导轨 DIN35 rail			
可安装附件 Combination with accessories				
辅助触点 Auxiliary contact	✓			
报警触点 Alarm contact	✓			
分励脱扣器 Shunt release	✓			
欠电压脱扣器 Undervoltage release	✓			
辅连脱扣器 Auxiliary contact+Alarm contact	✓			
尺寸 Dimensions (mm) (WxHxL)	a	18	36	54
	b	80	80	80
	c	72	72	72

脱扣特性类型 Release characteristic type

B 型

适用于快速断开的情况, 可通过的最大瞬时电流应小于3倍。

B features

applied to faster release and the circuit breaker have small short current as well as allows through maximum current 3In

C 型

适用于大部分的电气回路, 可通过的最大瞬时电流在5倍以内。

C features

applied to most electric loop, it allows load through higher short time peak current and circuit breaker no operation, but permit through peak current maximum is up to 5 In.

D 型

适用于更高电流峰值的场所, 最高可达10倍。(例如, 可用于保护变压器的一次回路, 电机的启动等)

D features

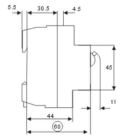
were recommended to higher peak current (10In of switch device. For example, it used for protecting transformer one times line, magnetic value and motor start, etc.

断路器的脱扣特性表2)

Circuit breaker release characteristic (table 2)

(表 Table 2)

脱扣类型 Trip type	测试项目 Testing project	脱扣曲线 Tripping curve	测试电流 I/n Testing current I/n	状态 Initiative state	时间范围 Trip or no-trip time limit	预期结果 Expected result
热脱扣 Thermal trip	a	B C D	1.13In	冷态 cold	t ≥ 1h	不脱扣 no-trip
	b	B C D	1.45In	连续测试 continue test	t < 1h	脱扣 trip
	c	B C D	2.55In	冷态 cold	IS < 1.05 (n ≤ 30A) IS < 1.20 (n > 30A)	脱扣 trip
磁脱扣 Magnetic trip	d	B	3In	冷态 cold	t ≥ 0.1h	不脱扣 no-trip
		C	5In			
		D	10In			
		B	5In			
	e	C	10In	冷态 cold	t < 0.1h	脱扣 trip



2极 2 pole



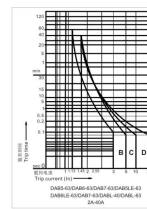
3极 3 pole



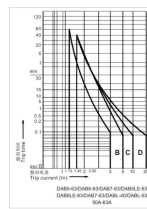
3极+中点线 3 pole+centric line



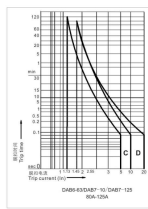
4极 4 pole



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B C D



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B C D



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B C D

负载能力

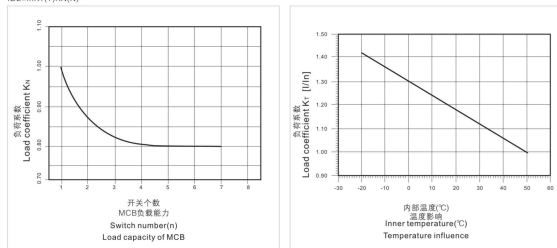
Loading capacity

适合 DAB7-63

相对温度下, N个断路器正常工作状态下允许过载负荷能力

Suit for DAB7-63

Relative temperature with n breaker in work state the overload permitted.

 $IDL = \ln(KT(T)/K(N))$ 

能耗

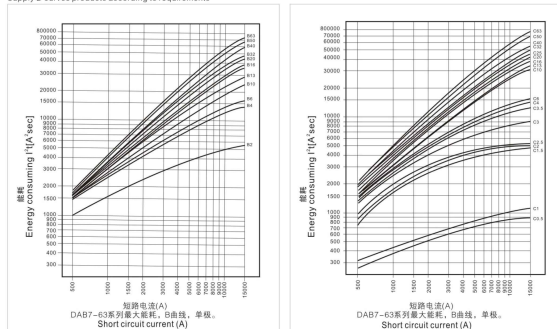
Energy consuming

根据电气标准 EN60898

根据要求提供D曲线的产品

In accordance with electric standard EN60898(IEC898)

Supply D curves products according to requirements



DAB7-63 Series maximum energy consuming, B curve, single pole

DAB7-63 Series maximum energy consuming, C curve, single pole

DAB7-100MCB小型断路器 DAB7-100 MCB Miniature Circuit Breaker



适用范围

Applicable scope

DAB7-100高分断小型断路器, 符合GB10963, IEC60898标准, 具有性能稳定, 精确保护, 分断时间短, 分断指标高, 体积小等特点, 它广泛应用于接触器, 继电器等电器设备的过载保护。

DAB7-100 series high break mini circuit breaker(MCB)conforms to GB10963, IEC60898 standard. MCB has the characteristic of reliable performance, precise protective function, short release time, and high break capacity small volume as well. It widely used in overload of contactor, switchgear and electric apparatus.

型号及规格

Type and specification

DA B 7 -100

壳架等级额定电流 Casing frame class rated current

设计序号 Design serial number

小型断路器 MCB

公司代码 Company code

技术参数

Technical parameter

符合标准: IEC60898, GB10963
 额定电压 (U_e) : 230/400V, 50HZ
 额定短路 $I_{cn}(kA)$: 6-63A 10KA, 80-100A 8KA
 选择等级: 3
 封闭的防护等级: IP40 (安装)
 寿命: 电寿命: 不少于8000次开关操作
 机械寿命: 不少于20000次开关操作

Conform to standard: IEC60898, GB10963
 Rated voltage (U_e) : 230/400V, 50HZ
 Rated short circuit $I_{cn}(kA)$: 6-63A 10KA, 80-100A 8KA
 Selective grade: 3
 Enclosed protection class: IP40 (Under mounting)
 Life: Electrical: not less than 8,000 times switching operation
 Mechanical: not less than 20,000 times switching operation

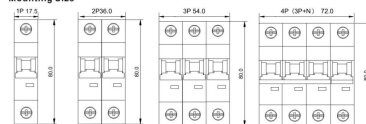
机械参数

Mechanical parameter

外壳长度: 45mm
 外壳高度: 80mm
 外壳宽度: 外壳17.5mm宽度单杆
 安装方式: 采用IEC标准的35mm导轨
 接线方式: 有两种接线方式, 直接与连接板接线, 或者用铜导线(软硬皆可)接线
 接线板或尺寸: 连接板的厚度0.8-2mm 铜导线截面积1-25mm²
 The length of exposed plane: 45mm
 Enclosure height: 80mm
 Enclosure width: 17.5mm per pole (single pole)
 Mounting manner: Adopt conduct rail of 35mm of IEC standard
 Terminal shape: Two-function terminal connect with busbar and soft or hard conducting wire
 Terminal block capacity: Conducting wire 1-25mm²
 Busbar thickness: 0.8-2mm

安装尺寸

Mounting Size



MCB DAB7-100

家用配电保护(IEC / EN 60898 - 1)
For protection of general power
distribution (IEC/EN 60898-1)



极数 Poles		1P	2P	3P	4P	
电气性能 Electrical performance						
功能 Functions		短路保护, 过载保护, 隔离, 控制 short circuit protection, overload protection, isolation, control				
额定频率 Rated frequency f Hz		50-60Hz				
额定工作电压 Rated working voltage Ue V AC		230/400	400			
额定电流 Rated current In A		6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100				
额定绝缘电压 Rated insulated voltage Ui V		500				
冲击耐受电压 Impulse withstand voltage Uimp kV		4				
瞬时脱扣型 Instantaneous tripping type		DAB7-100		B/C/D		
额定分断能力 Rated short circuit Ion(kA)		DAB7-100		10KA(6-63A), 8KA(80-100A)		
脱扣类型 Release type		热磁式 Thermal magnetic type				
使用寿命 Service life (O-C)	机械 Mechanical	实际值 Actual value	20000			
		标准值 Standard value	4000			
	电气 Electrical	实际值 Actual value	8000			
		标准值 Standard value	4000			
连接和安装 Connection and installation						
防护等级 Protection degree		IP20				
电线 Wire mm²		1-35				
工作温度 Working temperature		-5 ~ +40°C				
阻燃等级 Resistance to humidity and heat		等级2 Class 2				
海拔高度 Altitude above sea		≤2000				
相对湿度 Relative humidity		+20°C, ≤90%; +40°C, ≤50%				
污染等级 Pollution degree		2				
安装环境 Installation environment		避免明显的冲击和震动 Avoid obvious shock and vibration				
安装等级 Installation class		等级 I Class I, 等级 II Class II				
导轨 Mounting		DIN35导轨 DIN35 rail				
可安装附件 Combination with accessories						
辅助触点 Auxiliary contact		✓				
报警触点 Alarm contact		✓				
分励脱扣器 Shunt release		✓				
欠压脱扣器 Undervoltage release		✓				
辅连接 Auxiliary contact+Alarm contact		✓				
尺寸 Dimensions(mm) (WxHxL)		a	18	36	54	72
		b	80	80	80	80
		c	72	72	72	72