



Calculation number: Cal_KS3.2t-4.5-9.5m
 Crane work number: KS3.2t x4.5m Hol:9.5m
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CRANE DATA

1 General

Crane typeKS3.2t x4.5m Hol:9.5m
 Span4.5m
 Crane load (SWL)3200kg
 Number of hoists1 ps
 Hoisting height9.5m (max9.5m)
 Hoist type.....K2104L0032M509DD02N
 Trolley rail gauge.....N/A
 Crane useIndoor

Crane group.....FEM A5
 Hoist groupM5(FEM 2m)
 Hoist traversing groupM5(FEM 2m)
 Bridge traveling groupM5(FEM 2m)

Hoisting speed5/0.8 2-speed
 Trolley traversing speed0-20 m/min Stepless
 Bridge traveling speed0-32 m/min Stepless

Dynamic coefficient for load1.19
 Dynamic coefficient dead load1.1
 Sideways pull factorN/A
 Crane acceleration0.13m/s²

Weight of crane (with hoists)1188 kg
 Weight of crane bridge (without hoists)915 kg
 Weight of one hoist and trolley273 kg
 Weight of one end carriage.....108 kg
 Weight of one crane traveling machinery14 kg
 Weight of bridge panel50kg
 Weight of one main girder437 kg
 Weight of crane service platformN/A

Main girder type (Box)300/410/6/16/6/6-Q235
 Service platform typeN/A
 Surface preparation typeSa2.5
 Painting typeEpoxy

2 Electrical

Main voltage380V/50Hz
 Control voltage48AC
 Nominal power of crane4.95kW
 Maximum current of crane*)N/A
 Nominal current of crane*)12.8Ass
 Power factor at starting current0.83
 Power factor at nominal current.....0.92
 Voltage drop of trolley power supply<= 2%
 Voltage drop of crane power supplyN/A