

Worked Solutions

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Calculator

Time 1 Hour 30 mins

Marks Available 80

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Question	Mark	Maximum mark
1		3
2		2
3		4
4		3
5		4
6		4
7		3
8		2
9		5
10		6
11		4
12		5
13		3
14		3
15		2
16		3
17		2
18		5
19		2
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web the control circuit is based on a cmos inverter ic1 type 40106 the motor is switched by a darlington with discrete components t1 t2 ic1a inverter operates as an oscillator whose duty cycle the t2 leads so the motor receives energy is determined by r2 c2 d3 gave the inactive signal oscillator when t2 is blocked is determined by r3 p1

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web the diagram below has two components the normally open temperature switch and the magnetic contactor the three normally closed contacts that represent the olr protection are connected in series with the motor coil and so can be treated as a single device in practice a motor starter often only has two external connection points and all internal

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